

2. SCIAMACHY Daily Report for Level 2 products

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2.1 General Info

This report contains a daily analysis on parameters extracted from SCIAMACHY Level 2 data (the SCI_OL__2P product).

2.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

Item	Value
Report version	1.13 (28-02-2011)
Time of report generation	24MAR2011 04:57:00
Data source version	SCIA-OL/5.01-N
Processing scope for products	18MAR2011 00:00:00 to 19MAR2011 00:00:00
Start time of first product within scope	18MAR2011 00:28:13
Stop time of last product within scope	19MAR2011 00:50:49
Total number of level 2 products	17
Number of level 2 products with errors	0

2.1.2 Summary per product

The following table shows a summary for each product used in this report.

Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

Products are checked for a minimum duration of 3500.0000 seconds and a maximum duration of 6000.0000 seconds. Products failing the duration test are highlighted in bold, and their stop time is highlighted in red.

#	Product name	Start time	Stop time	Prod err	Fit summary
0	SCI_OL__2PNDPA20110318_002813_000036143100_00303_47300_2231.N1	18MAR2011 00:28:13	18MAR2011 01:28:27	0	GOOD
1	SCI_OL__2PNDPA20110318_020826_000026133100_00304_47301_2238.N1	18MAR2011 02:08:26	18MAR2011 02:52:00	0	GOOD
2	SCI_OL__2PNDPA20110318_024758_000002413100_00305_47302_2232.N1	18MAR2011 02:47:58	18MAR2011 02:52:00	0	GOOD
3	SCI_OL__2PNDPA20110318_025203_000060103100_00305_47302_2239.N1	18MAR2011 02:52:03	18MAR2011 04:32:14	0	GOOD
4	SCI_OL__2PNDPA20110318_042812_000003643100_00306_47303_2235.N1	18MAR2011 04:28:12	18MAR2011 04:34:16	0	GOOD

5	SCI_OL__2PNDPA20110318_043311_000060103100_00306_47303_2240.N1	18MAR2011 04:33:11	18MAR2011 06:13:21	0	GOOD
6	SCI_OL__2PNDPA20110318_060825_000003643100_00307_47304_2236.N1	18MAR2011 06:08:25	18MAR2011 06:14:30	0	GOOD
7	SCI_OL__2PNDPA20110318_061433_000039773100_00307_47304_2237.N1	18MAR2011 06:14:33	18MAR2011 07:20:51	0	GOOD
8	SCI_OL__2PNDPA20110318_072203_000060093100_00308_47305_2241.N1	18MAR2011 07:22:03	18MAR2011 09:02:13	0	GOOD
9	SCI_OL__2PNDPA20110318_090217_000058873100_00309_47306_2242.N1	18MAR2011 09:02:17	18MAR2011 10:40:24	0	GOOD
10	SCI_OL__2PNDPA20110318_104027_000060093100_00310_47307_2243.N1	18MAR2011 10:40:27	18MAR2011 12:20:37	0	GOOD
11	SCI_OL__2PNDPA20110318_122041_000058183100_00311_47308_2244.N1	18MAR2011 12:20:41	18MAR2011 13:57:40	0	GOOD
12	SCI_OL__2PNDPA20110318_135743_000058873100_00312_47309_2245.N1	18MAR2011 13:57:43	18MAR2011 15:35:50	0	GOOD
13	SCI_OL__2PNDPA20110318_153554_000058663100_00313_47310_2246.N1	18MAR2011 15:35:54	18MAR2011 17:13:40	0	GOOD
14	SCI_OL__2PNDPA20110318_171344_000034203100_00314_47311_2247.N1	18MAR2011 17:13:44	18MAR2011 18:10:44	0	GOOD
15	SCI_OL__2PNDPA20110318_221506_000033553100_00316_47313_2251.N1	18MAR2011 22:15:06	18MAR2011 23:11:02	0	GOOD
16	SCI_OL__2PNDPA20110318_235602_000032873100_00317_47314_2259.N1	18MAR2011 23:56:02	19MAR2011 00:50:49	0	GOOD

2.2 Product Quality Indicators

2.2.1 Cloud parameters

This section shows information about the cloud parameters estimation, in particular cloud fractions and cloud top height. IMPORTANT NOTE: The contents and layout of this section are still being validated. Please use with caution.

General statistics:

Total number of cloud data DSRs: 127529

Total number of cloud data DSRs with good quality flag (=0): 127529 (100.0 %)

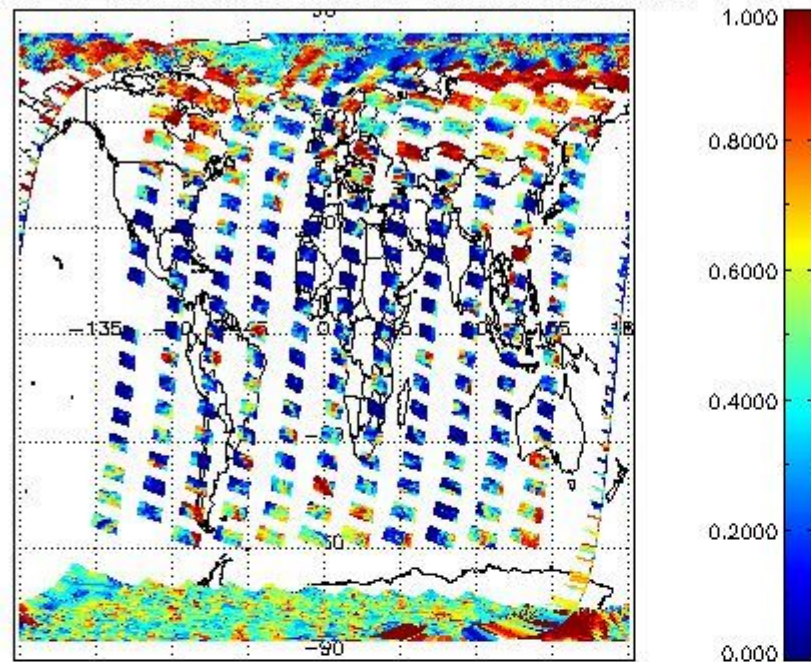
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	127529	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	127529	0.17813	0.12500	0.12500	0.25000	0.061794	s
CL_FRAC	127529	0.48109	0.46892	0.0000	1.0000	0.33437	-
CL_FRAC_ERR	127529	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	127529	5.7003	4.0000	4.0000	8.0000	1.9774	
PMD_READ_CL[0]	127529	0.72557	0.0000	0.0000	8.0000	1.7112	-
PMD_READ_CL[1]	127529	1.1066	0.0000	0.0000	8.0000	2.4500	-
CL_TOP_HEIGHT	96878	3.5214	1.8870	0.0000	17.000	3.7334	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	96878	59.797	62.713	0.0000	101.00	40.705	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	127529	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	127529	11001101	11000100	11000000	11100000	3548.1	flags
AERO_ABSO_IND	127529	0.38077	0.0000	0.0000	7.4943	0.72293	
AERO_IND_DIAG	127529	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	127529	01011101	00000000	00000000	11000000	24564.	flags

Time and geolocation plots:

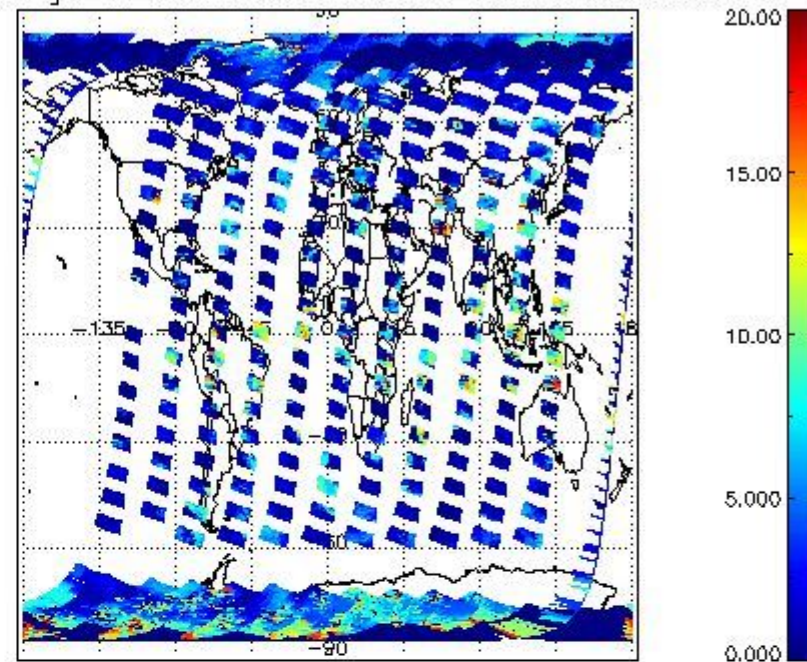
Plots are available for the following parameters:

Number	Data item ID
0	cl_frac
1	cl_top_height
2	cl_opt_depth
3	cloud_flags

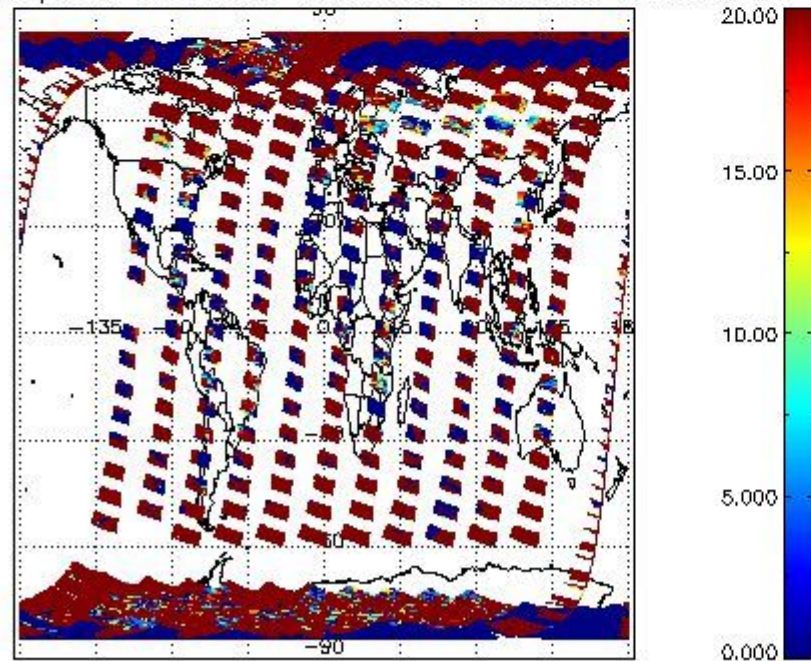
cL_frac for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



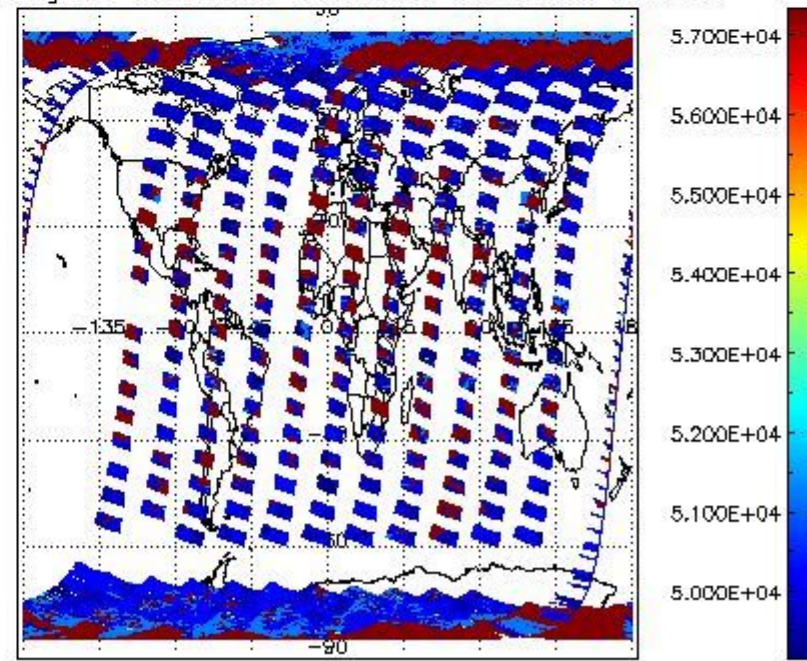
cL_top_height for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



cL_opt_depth for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



cloud_flags for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



2.2.2 Nadir

This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

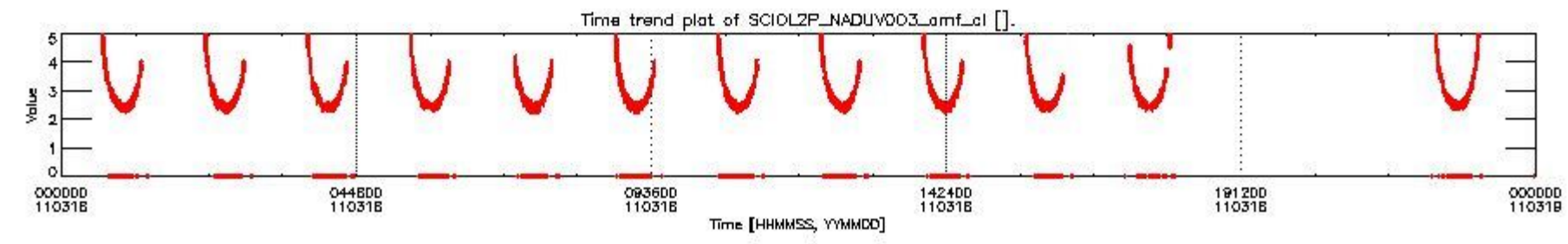
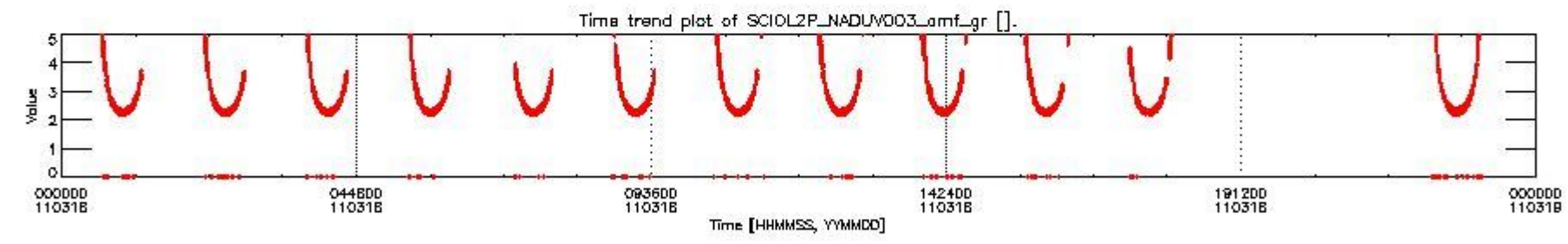
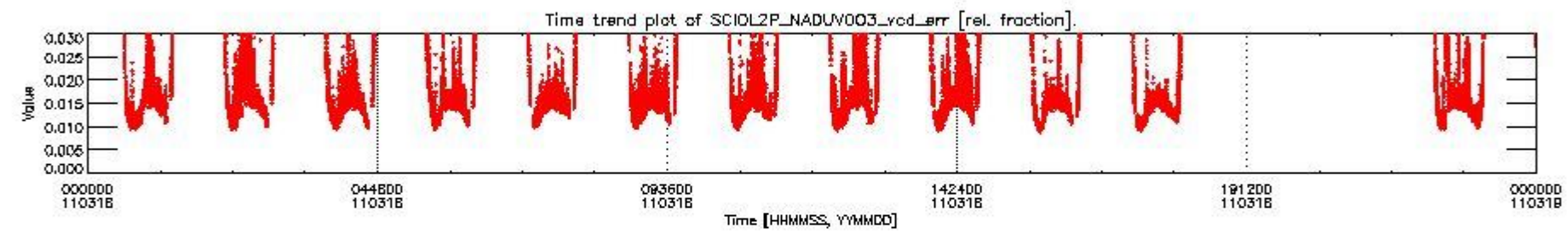
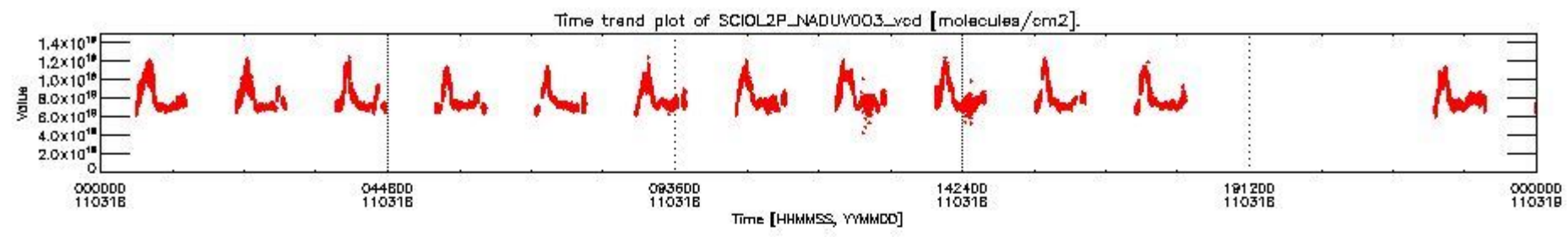
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

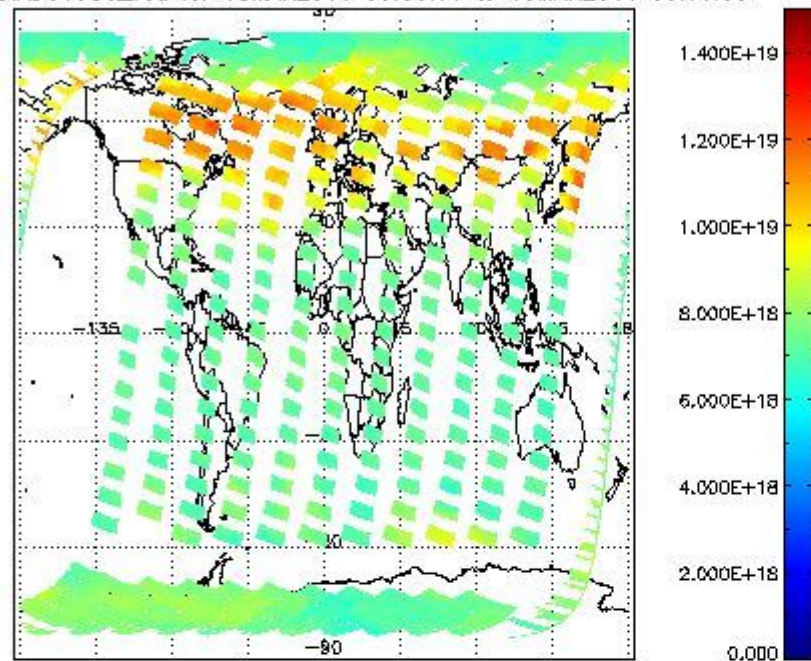
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr
15	SCIOL2P_NADUV5SO2_amf_cl
16	SCIOL2P_NADUV7SO2_vcd
17	SCIOL2P_NADUV7SO2_vcd_err
18	SCIOL2P_NADUV7SO2_amf_gr
19	SCIOL2P_NADUV7SO2_amf_cl
20	SCIOL2P_NADUV6OCL_slant_col_den
21	SCIOL2P_NADUV6OCL_err_slant_col
22	SCIOL2P_NADUV8H2O_vcd
23	SCIOL2P_NADUV8H2O_vcd_err
24	SCIOL2P_NADUV8H2O_amf_gr
25	SCIOL2P_NADIR3CO_vcd
26	SCIOL2P_NADIR3CO_vcd_err

Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the MPH.

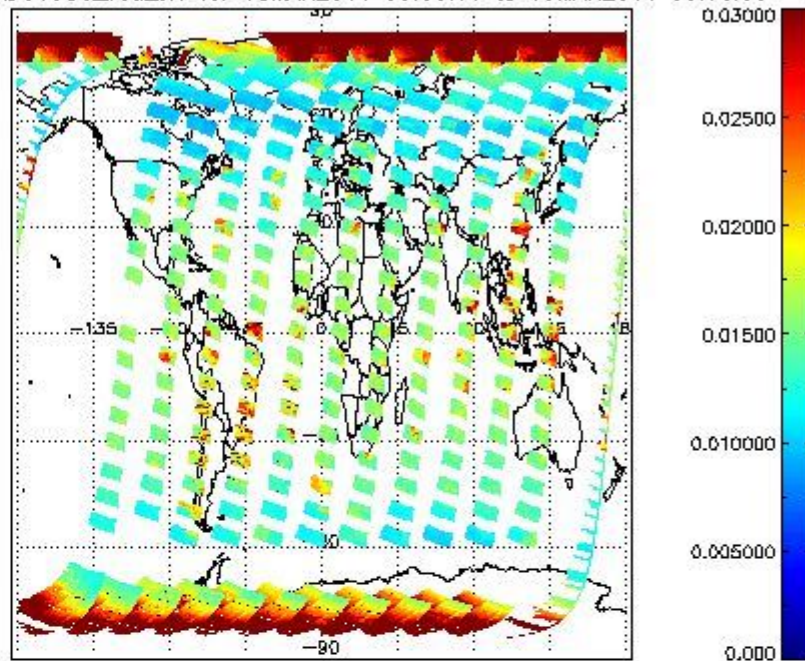
2.2.2.1 O3 (UV0)



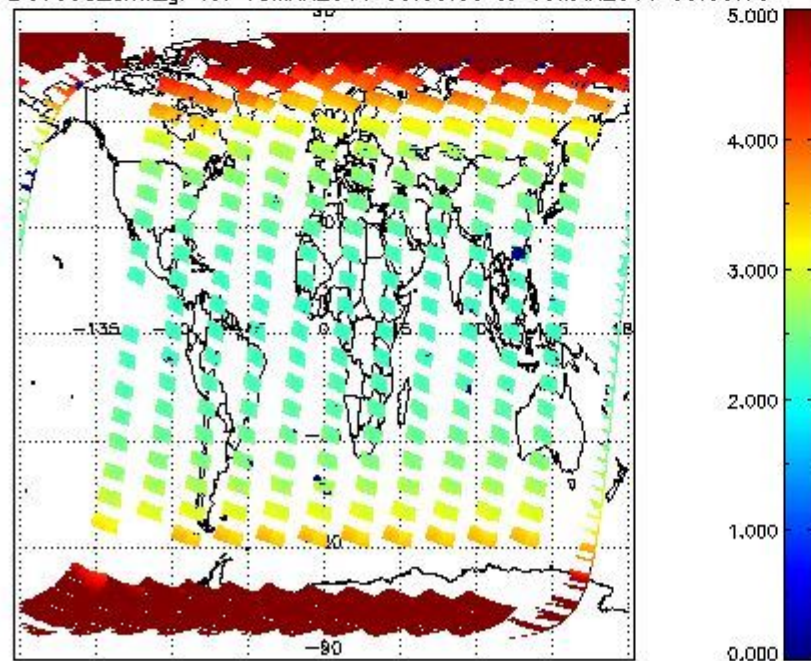
SCIOL2P_NADUV003_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



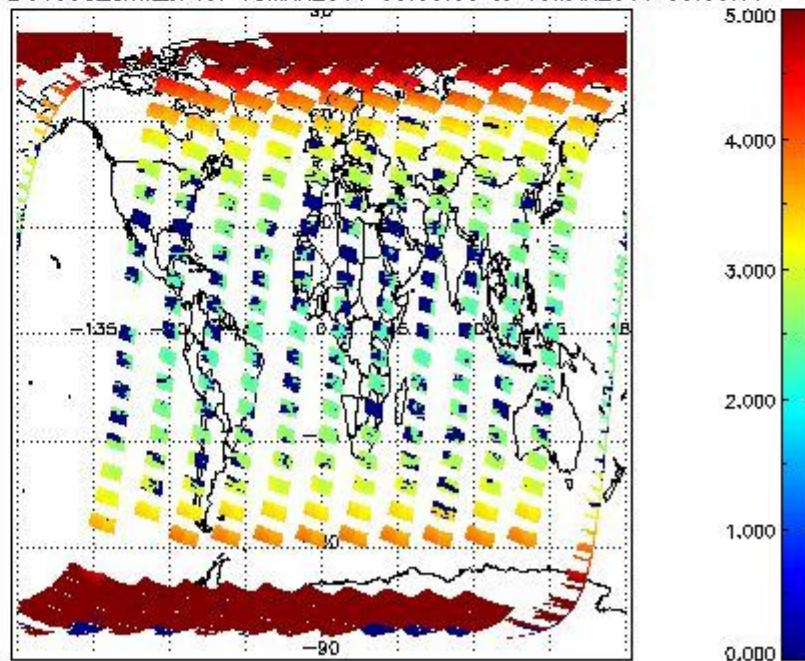
SCIOL2P_NADUV003_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



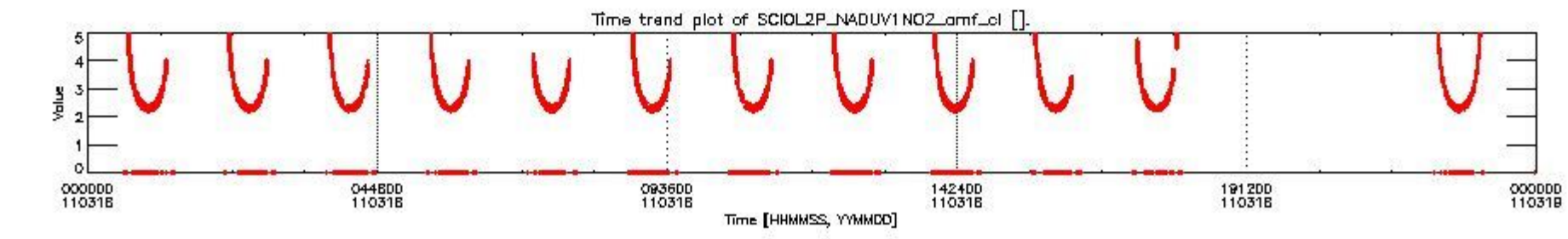
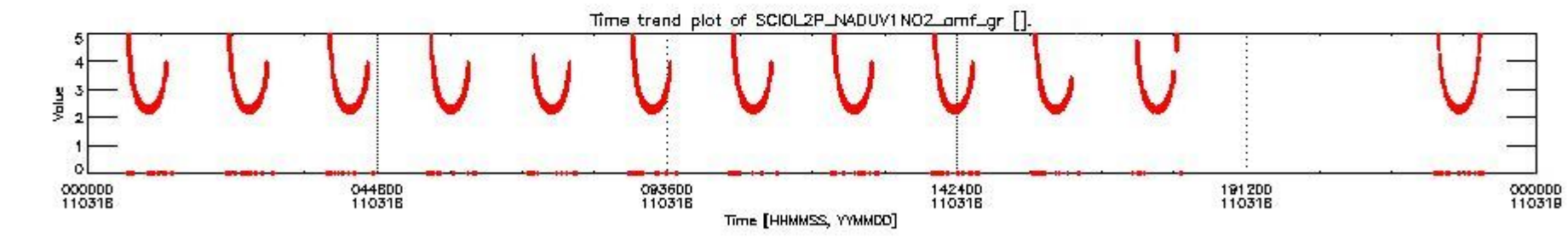
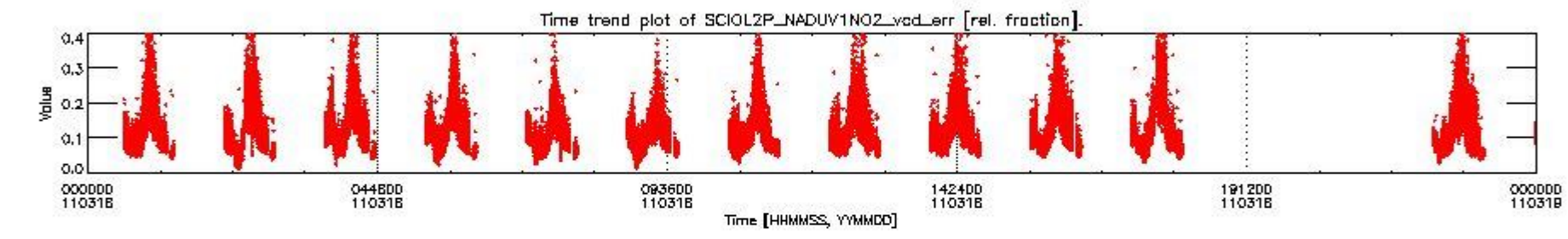
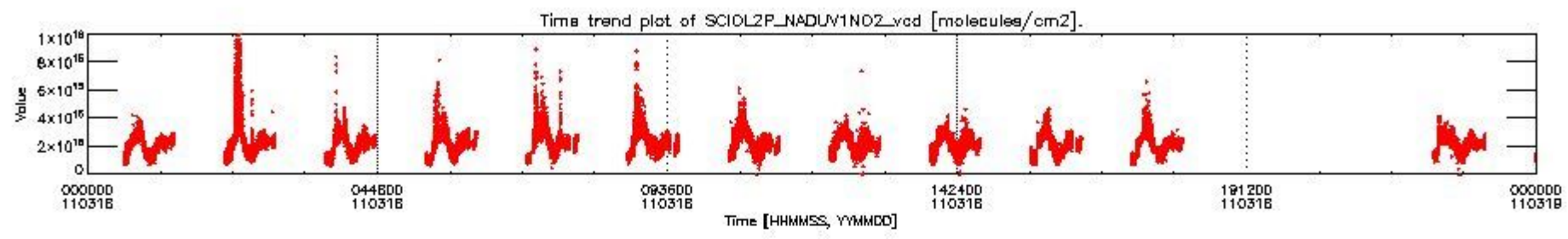
SCIOL2P_NADUV003_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



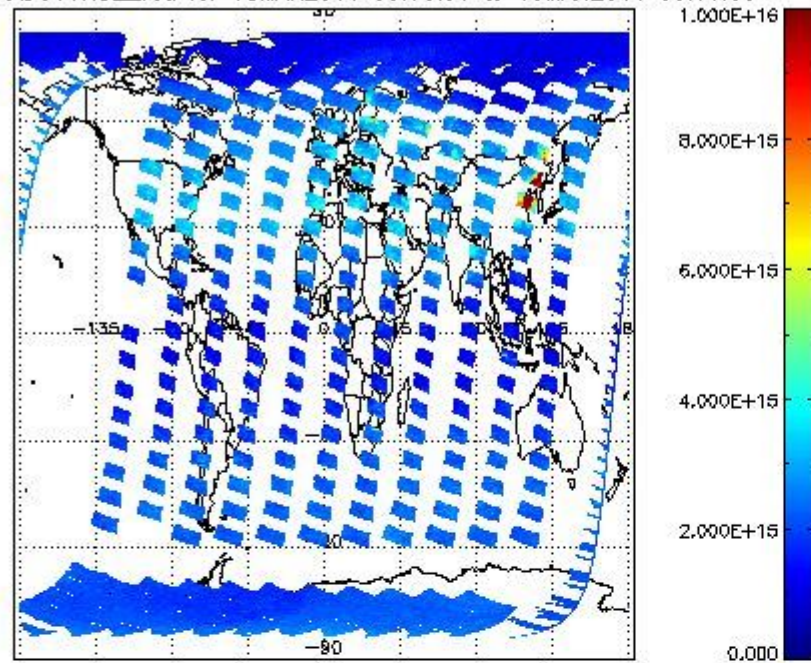
SCIOL2P_NADUV003_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



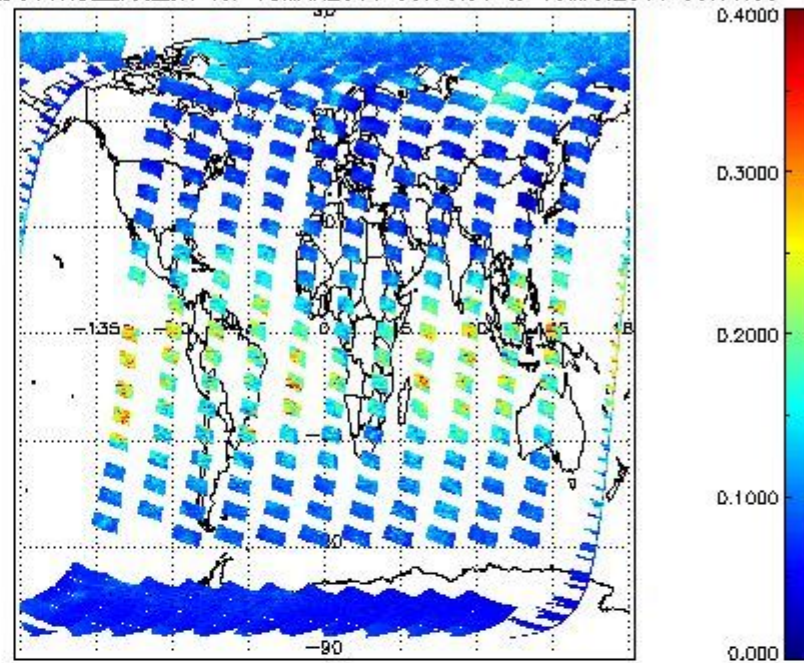
2.2.2.2 NO2 (UV1)



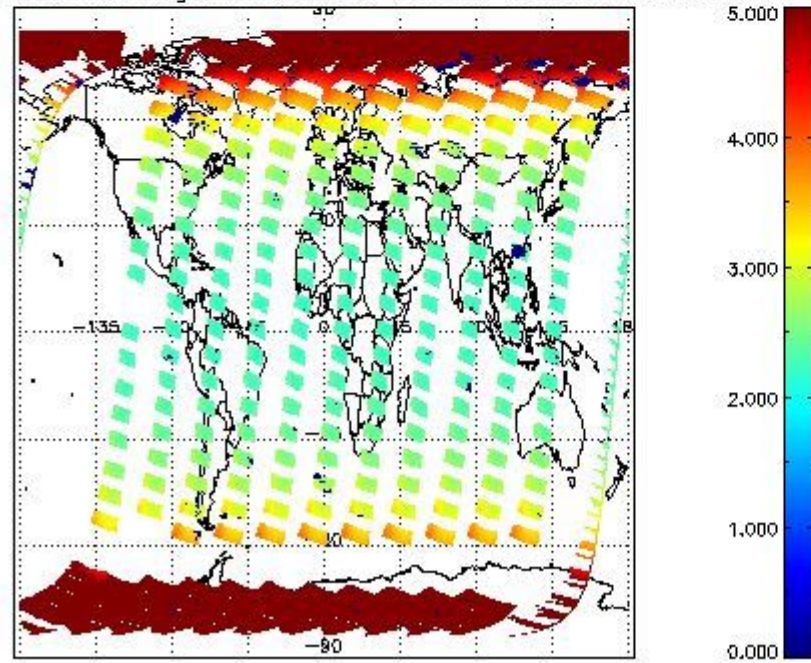
SCIOL2P_NADUV1NO2_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



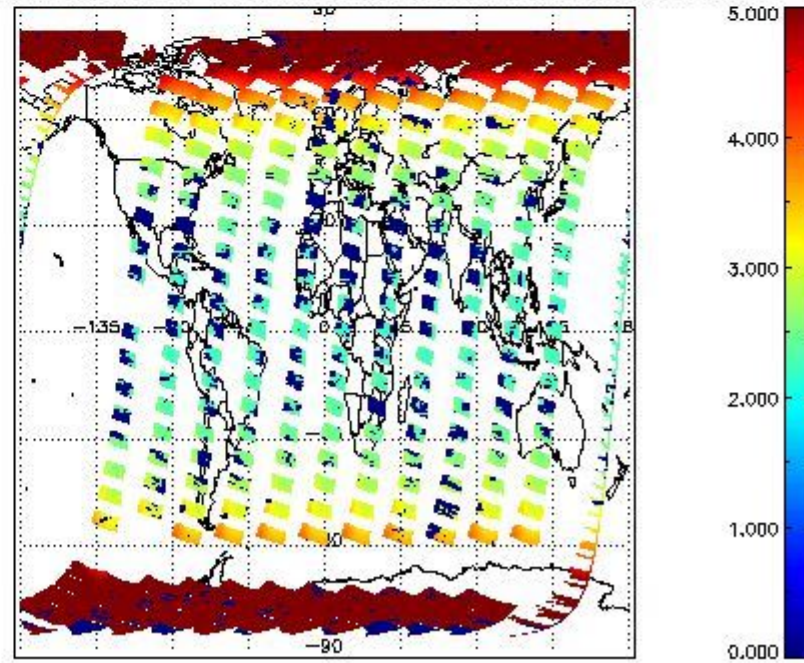
SCIOL2P_NADUV1NO2_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



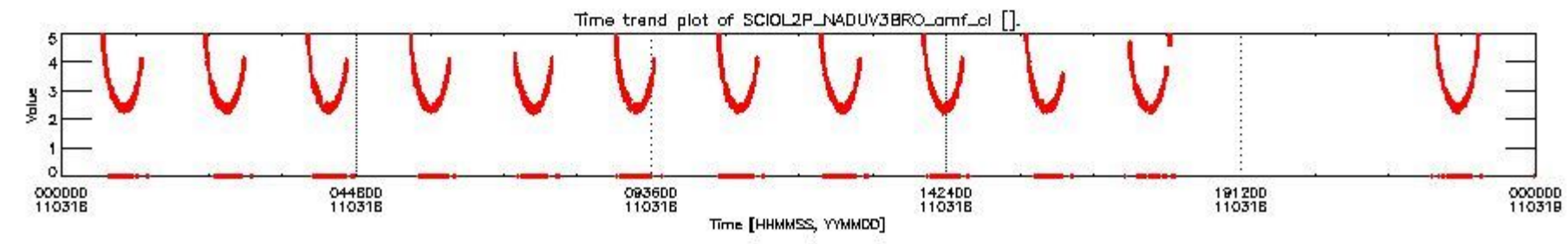
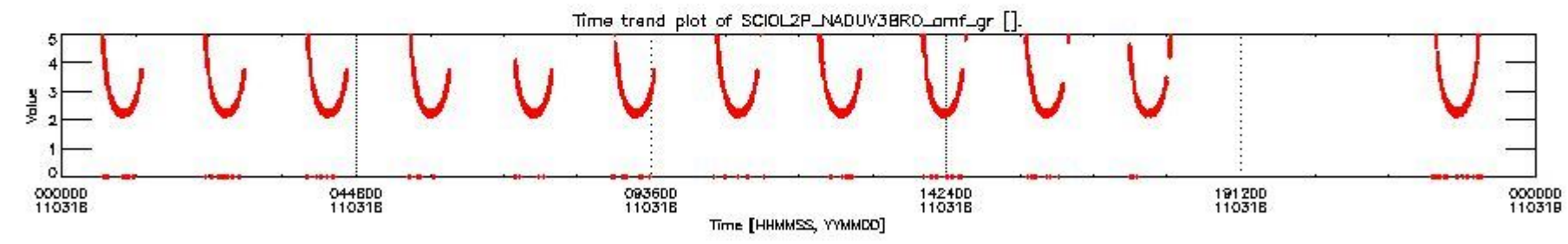
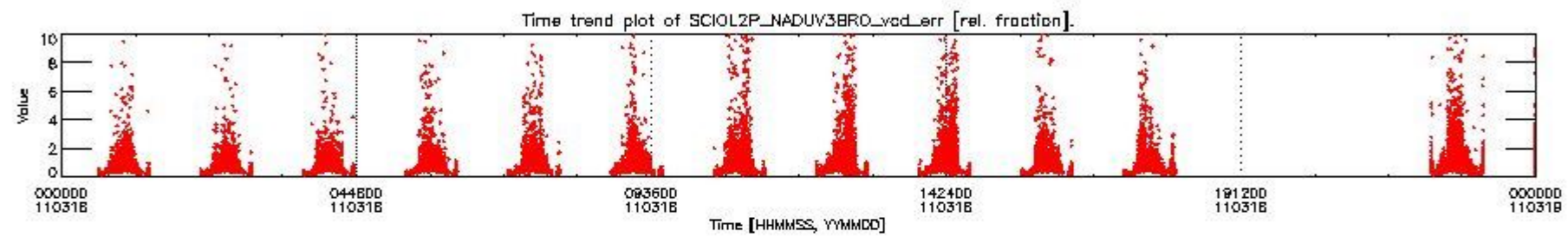
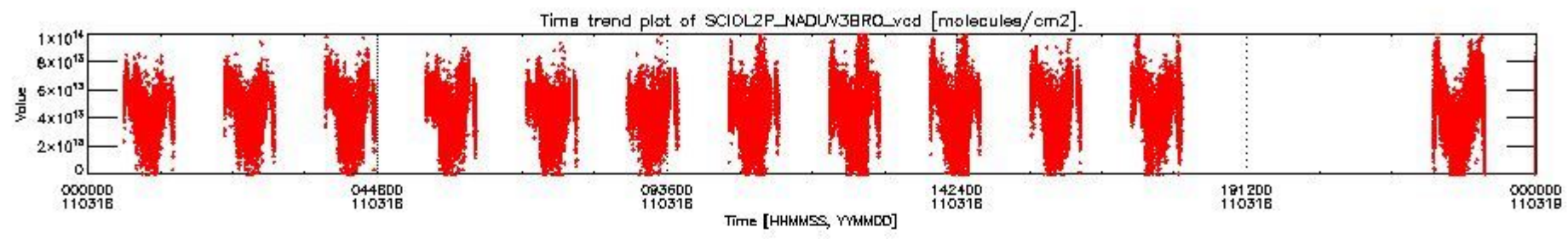
SCIOL2P_NADUV1NO2_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



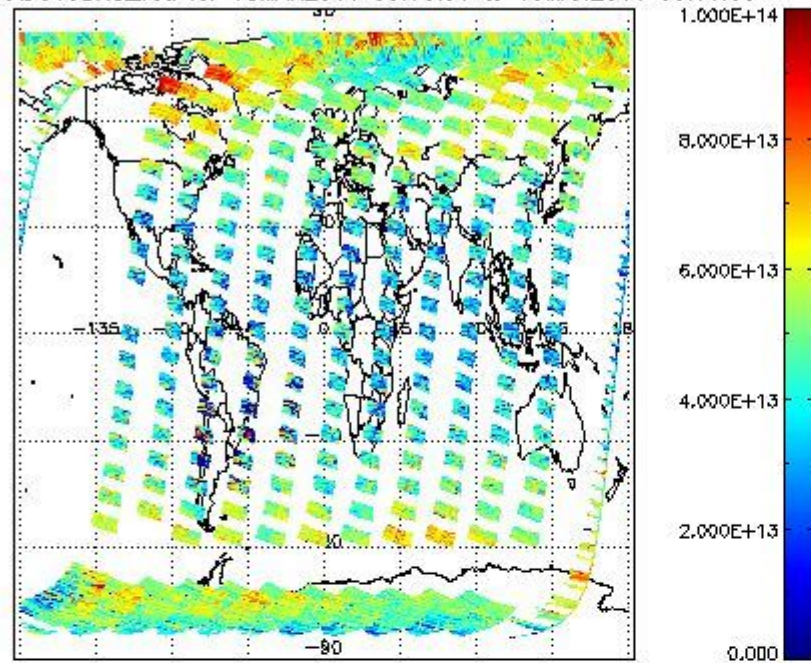
SCIOL2P_NADUV1NO2_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



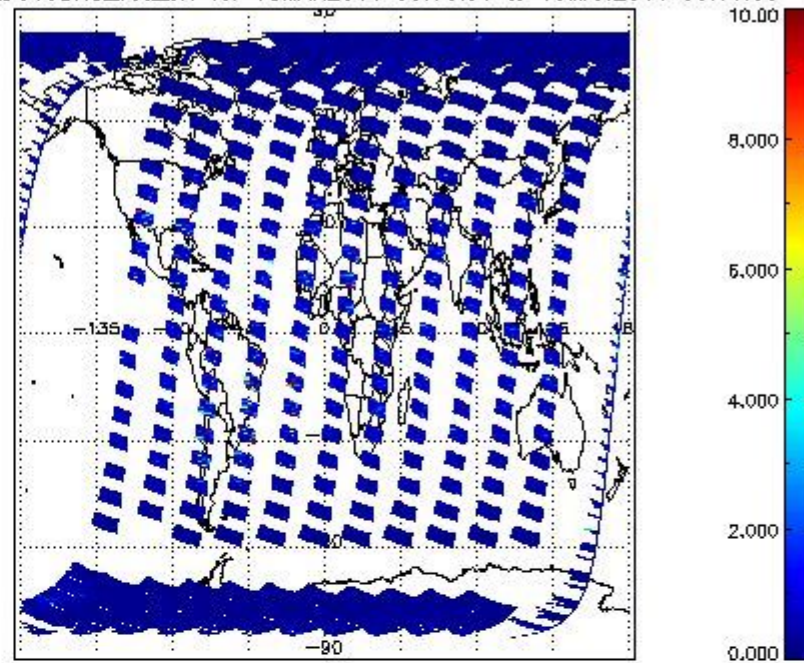
2.2.2.3 BrO (UV3)



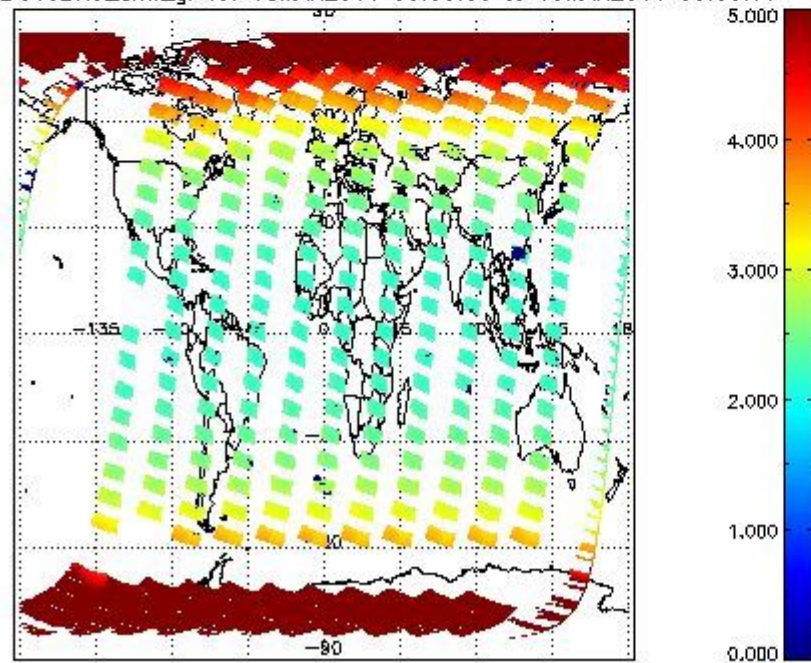
SCIOL2P_NADUV3BRO_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



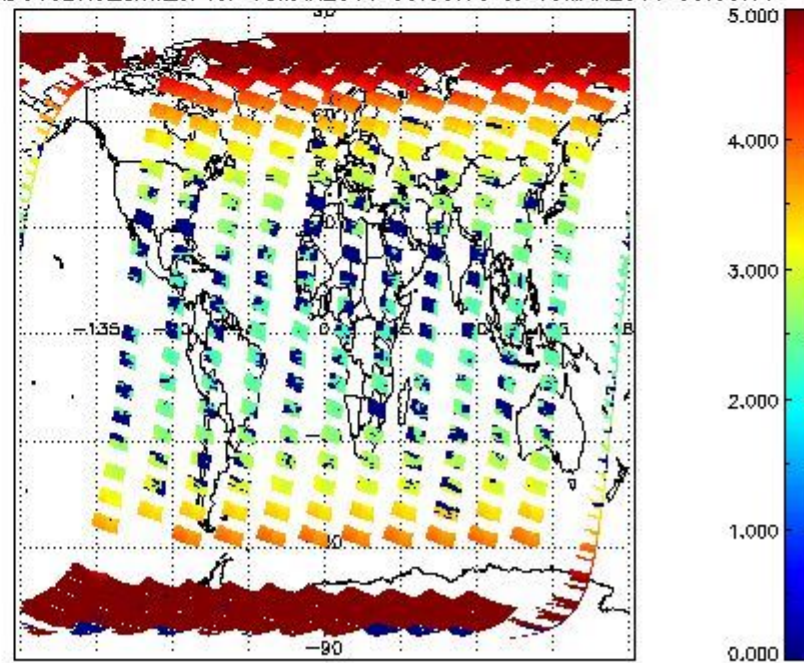
SCIOL2P_NADUV3BRO_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



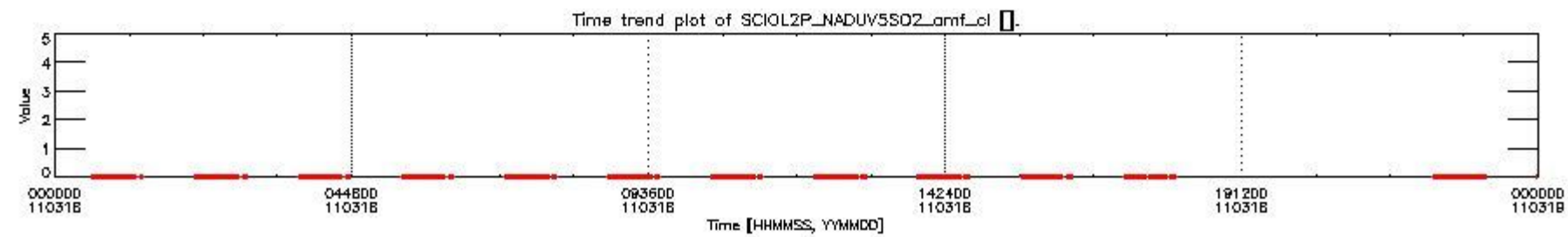
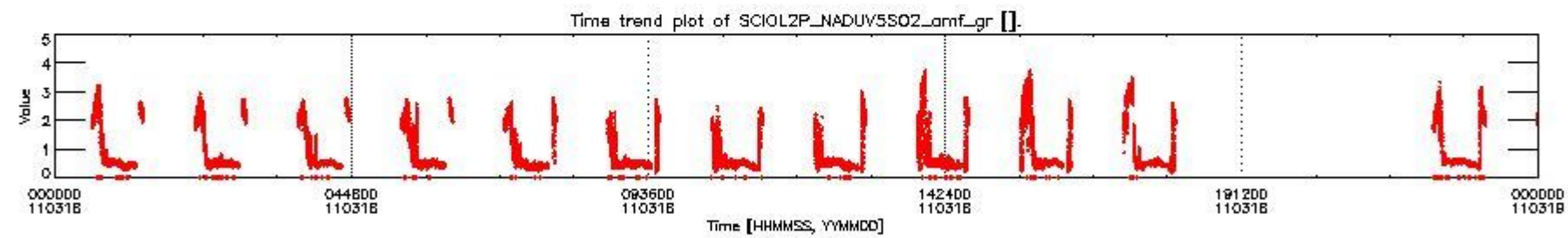
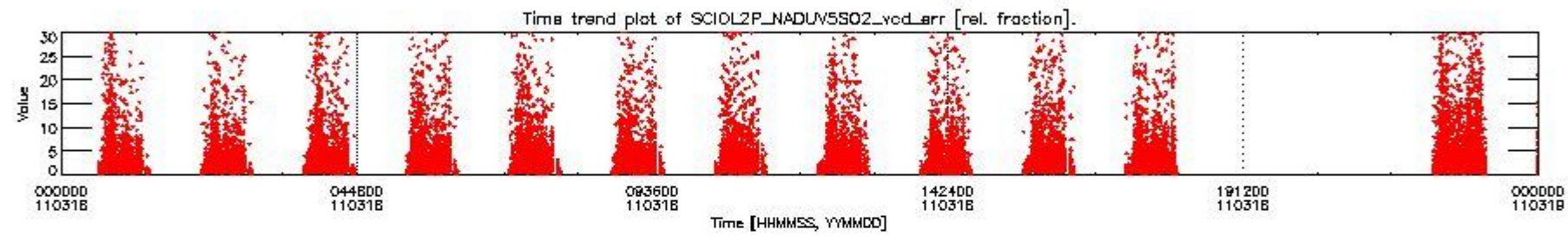
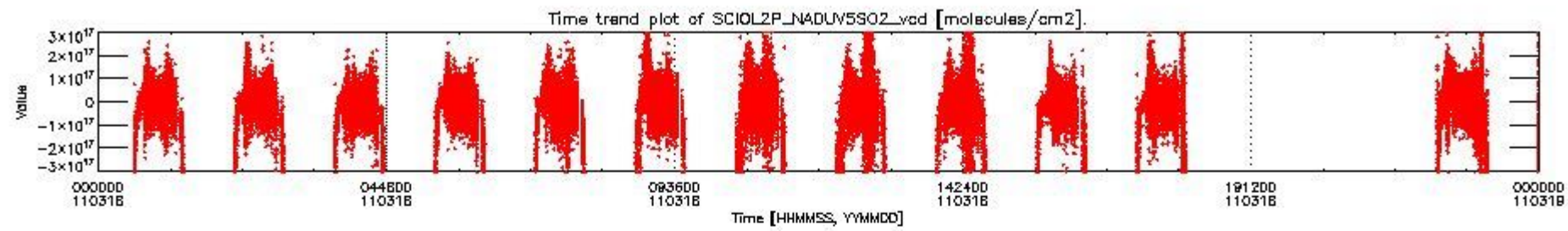
SCIOL2P_NADUV3BRO_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



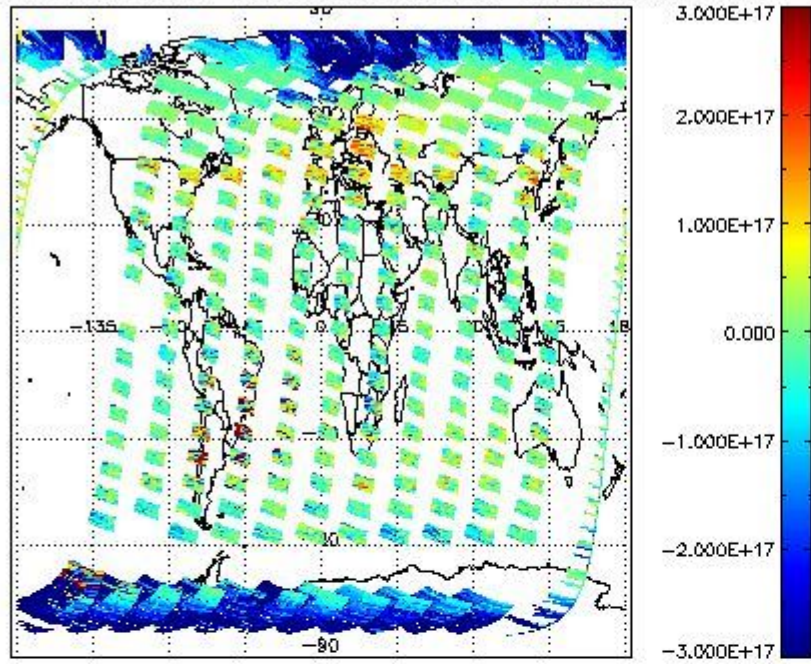
SCIOL2P_NADUV3BRO_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



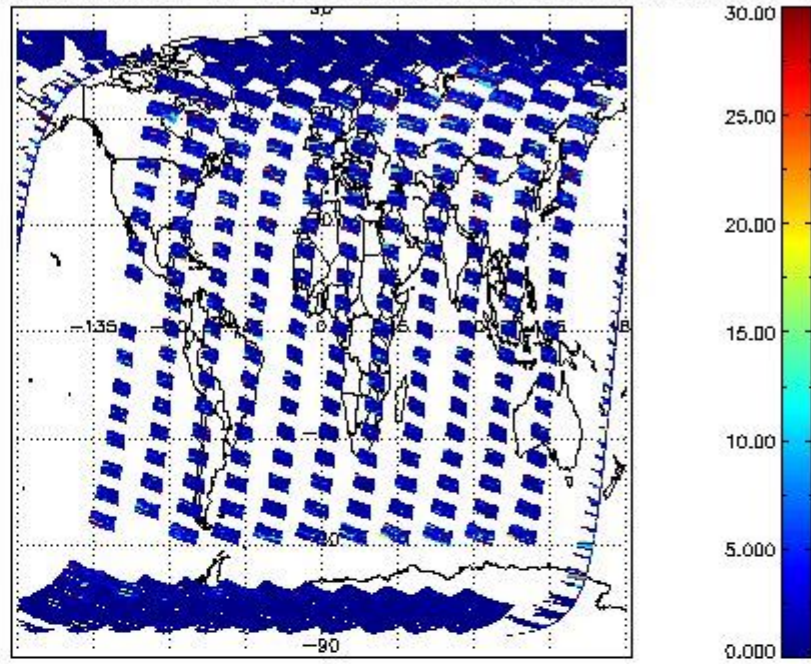
2.2.2.4 SO2 (UV5)



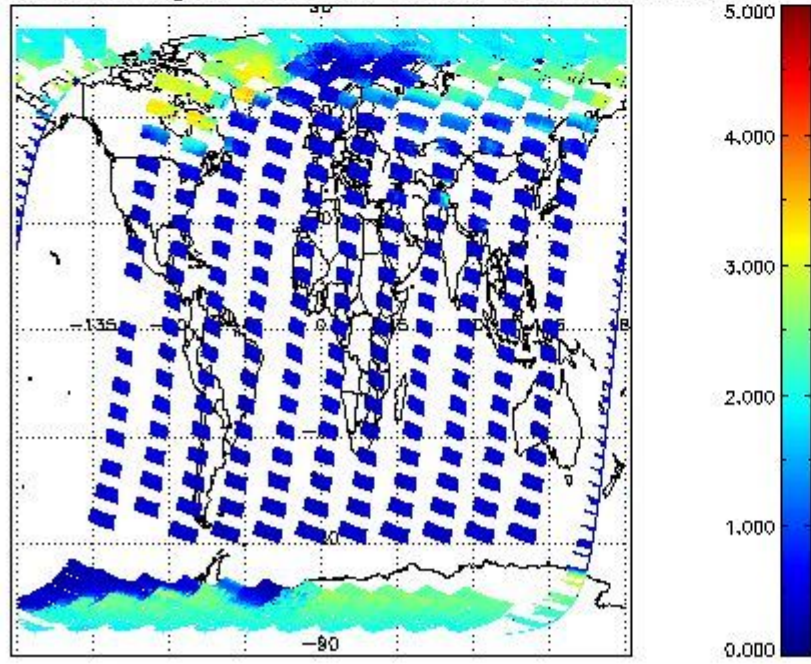
SCIOL2P_NADUV5SO2_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



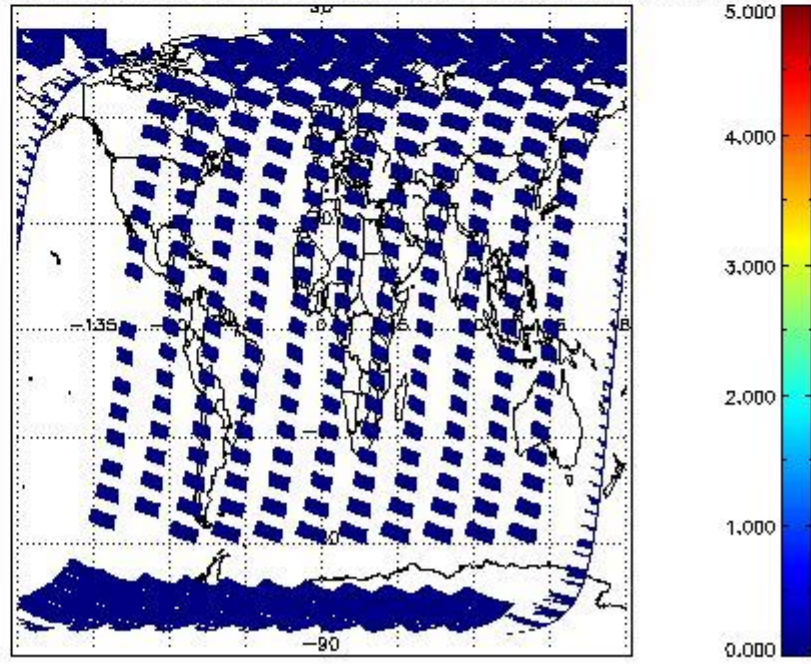
SCIOL2P_NADUV5SO2_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



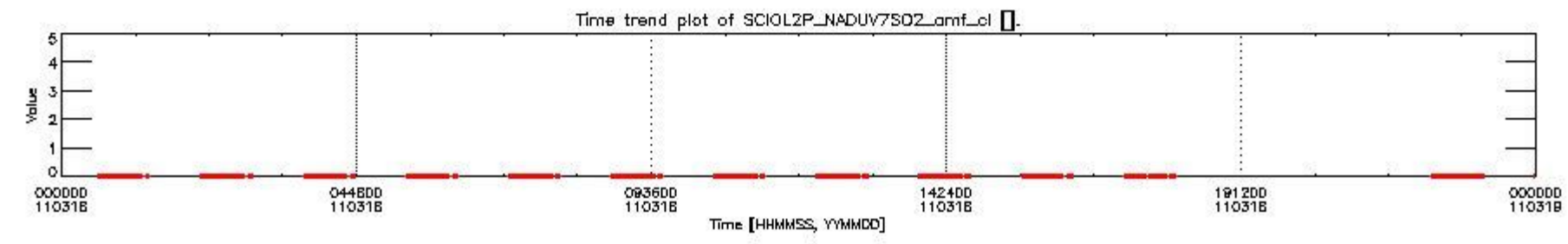
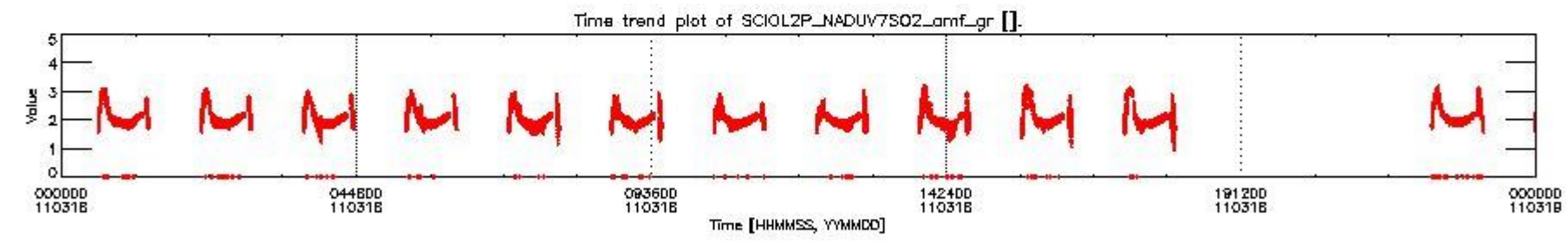
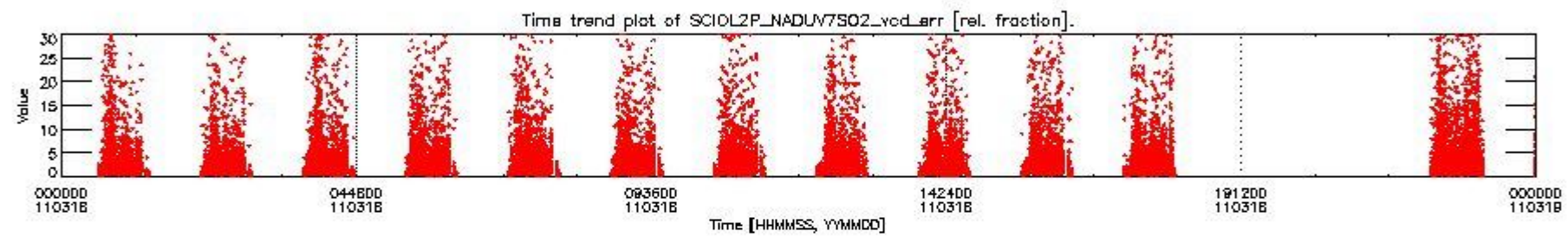
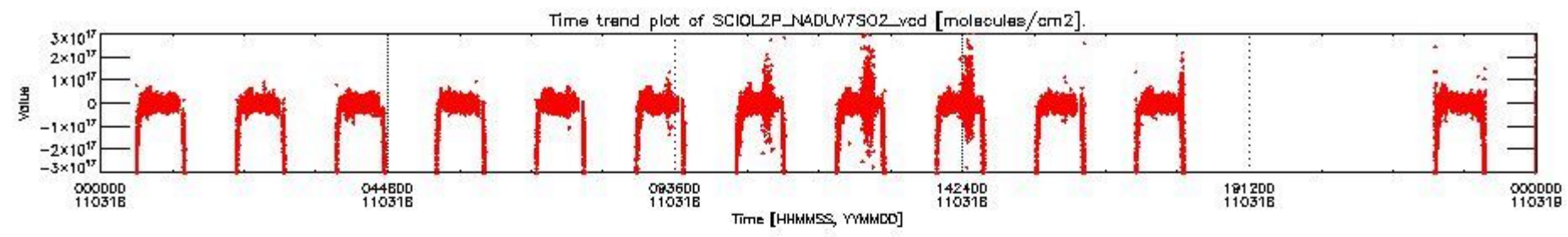
SCIOL2P_NADUV5SO2_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



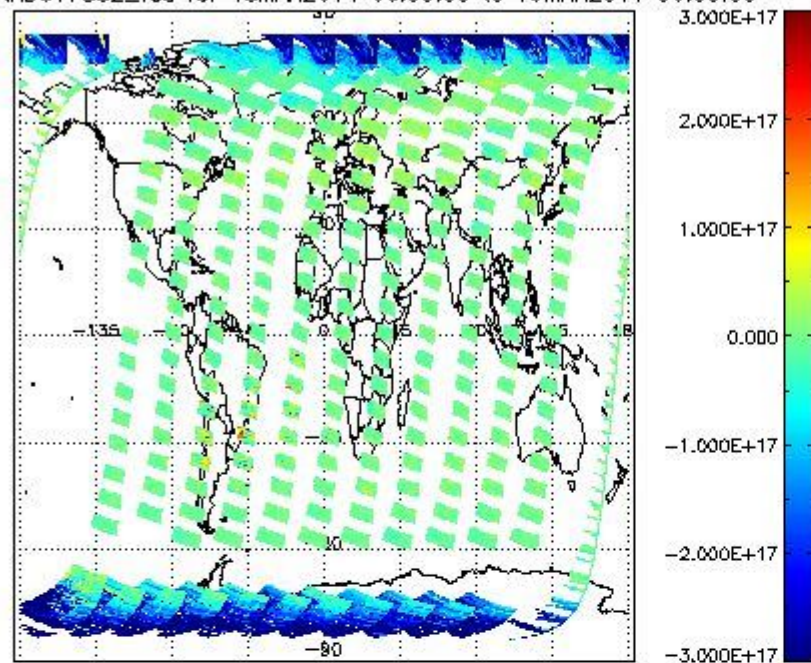
SCIOL2P_NADUV5SO2_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



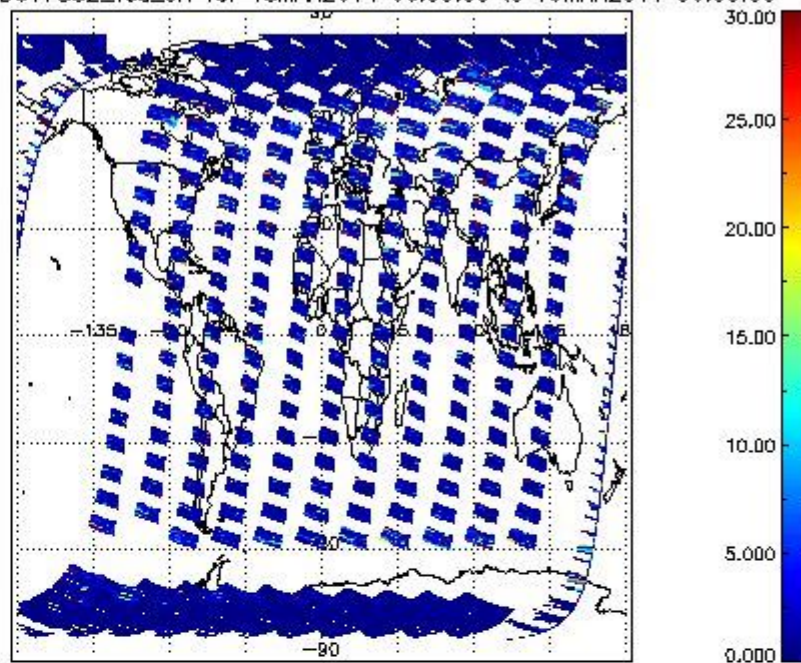
2.2.2.5 SO2 (UV7)



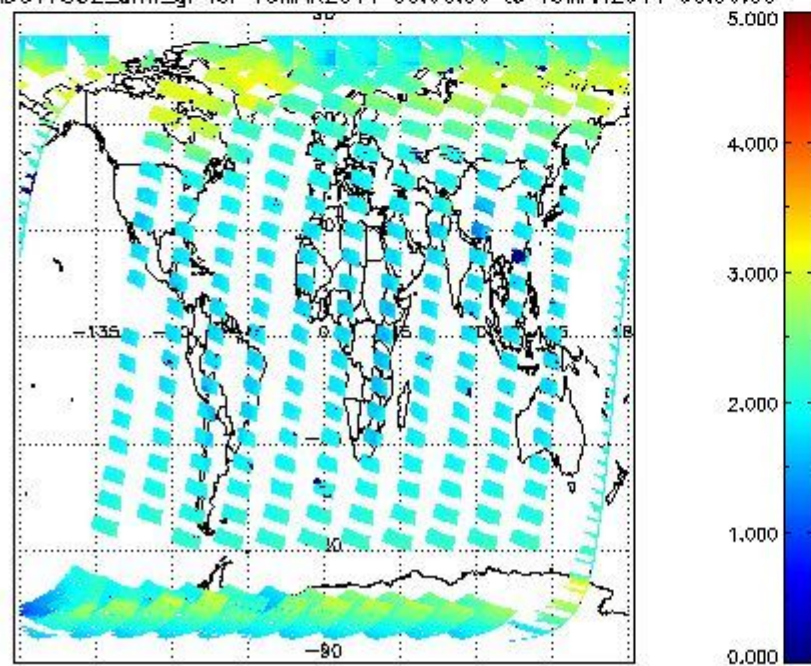
SCIOL2P_NADUV7S02_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



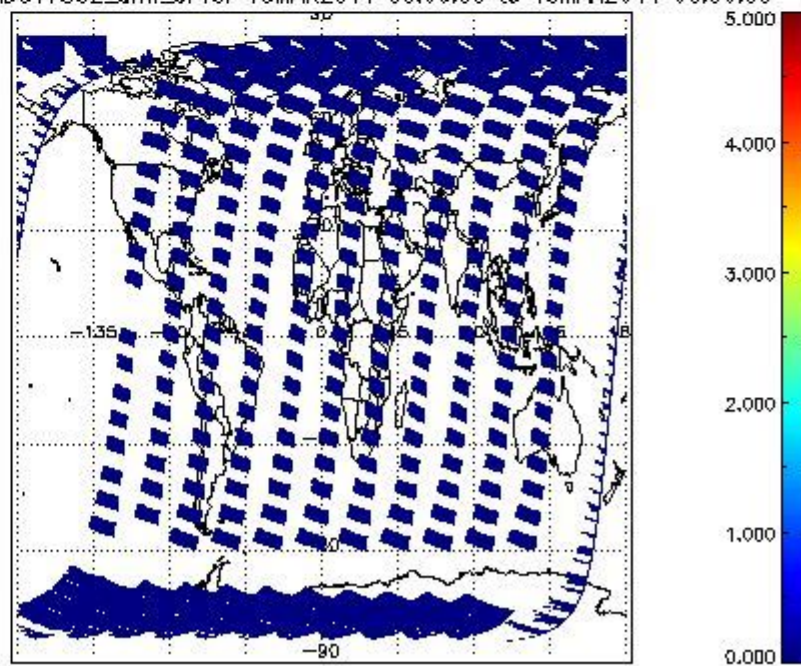
SCIOL2P_NADUV7S02_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



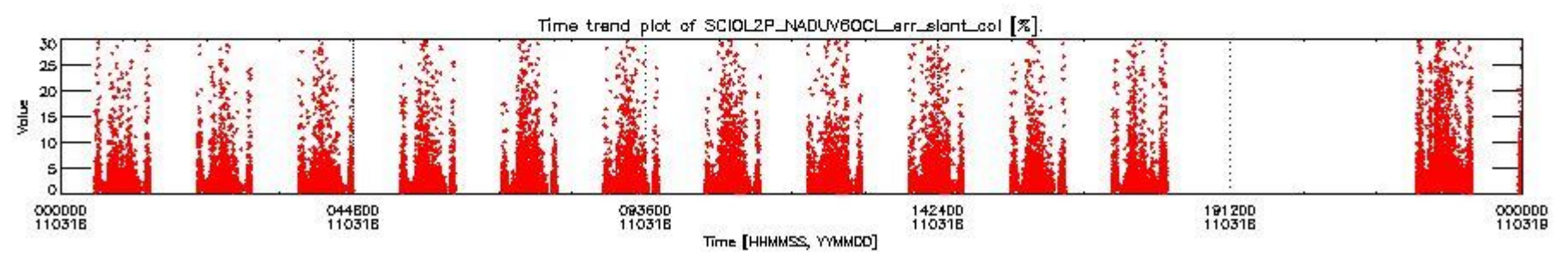
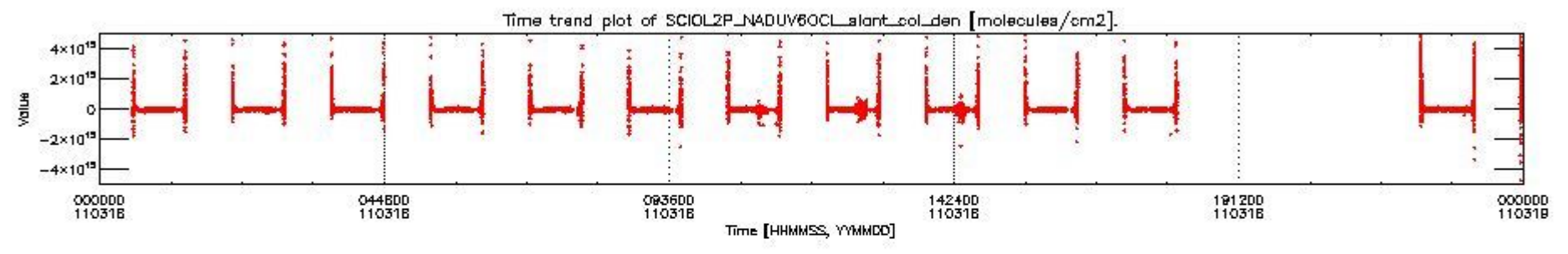
SCIOL2P_NADUV7S02_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



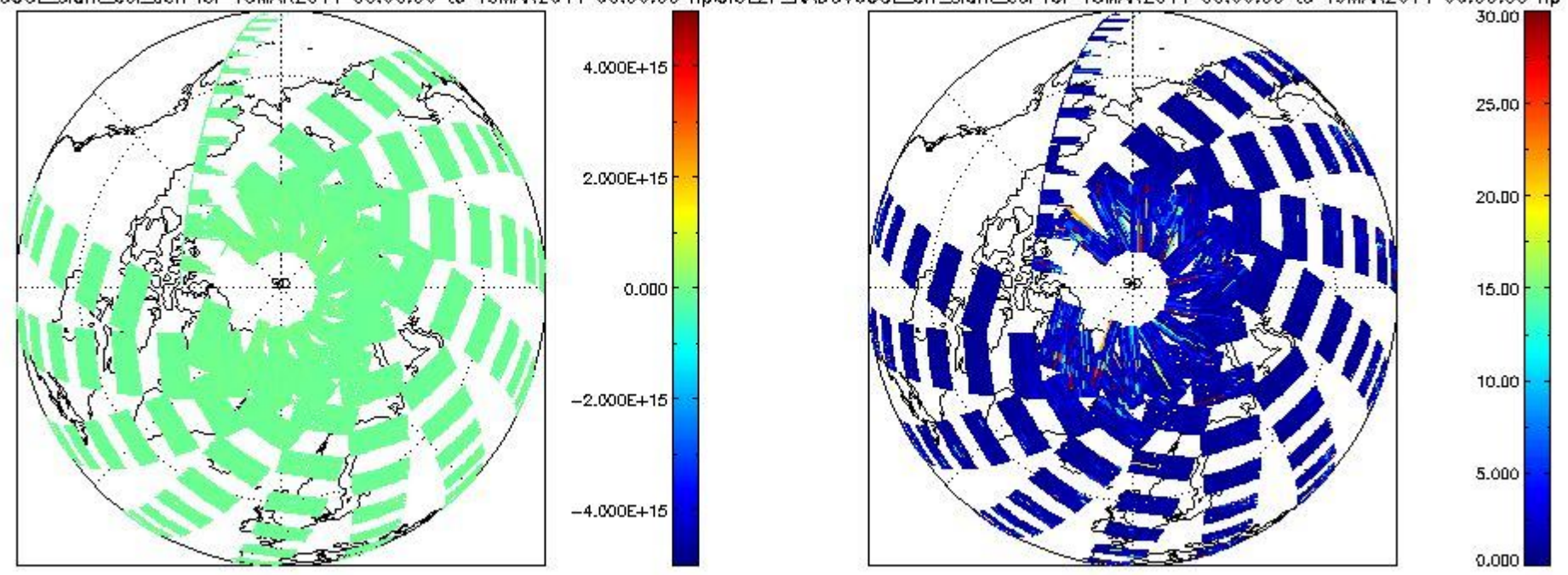
SCIOL2P_NADUV7S02_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



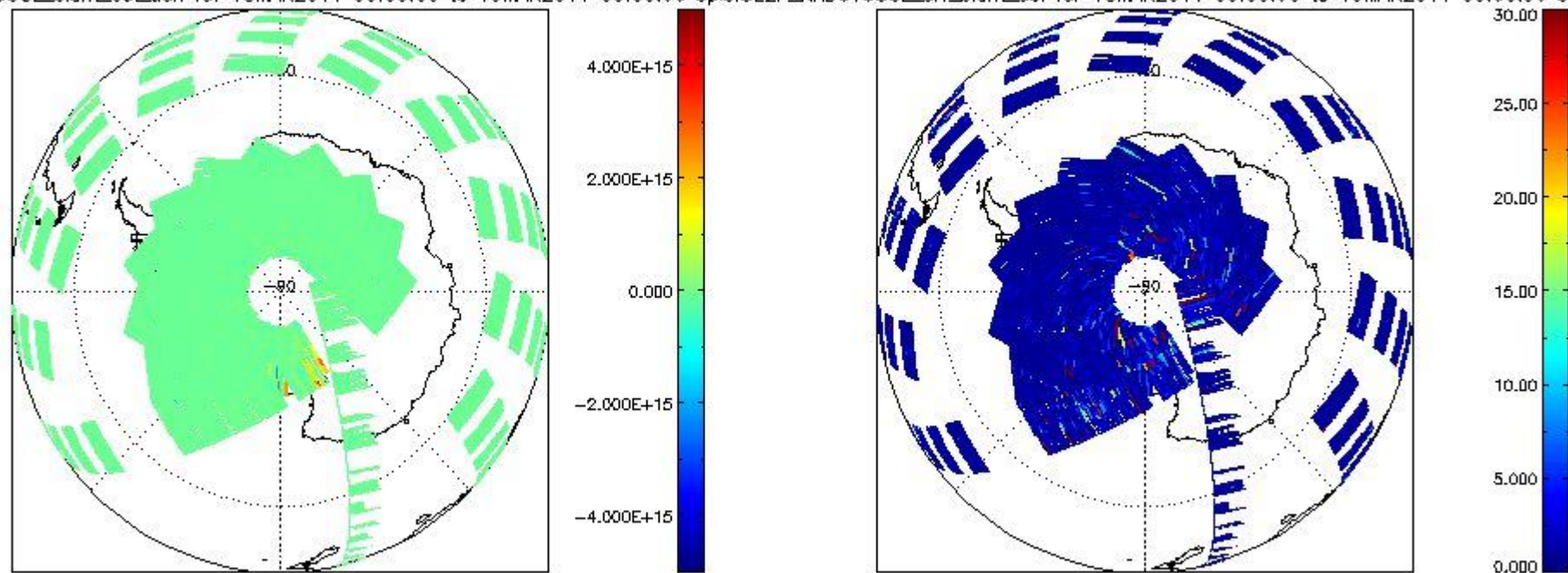
2.2.2.6 OCIO (UV6)



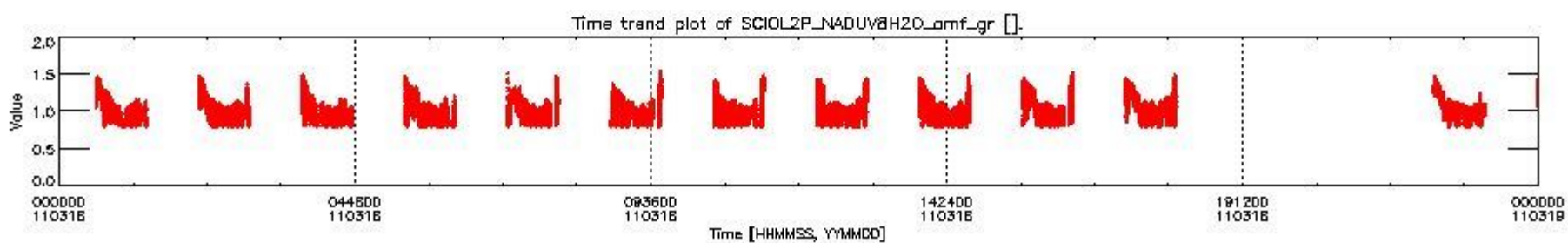
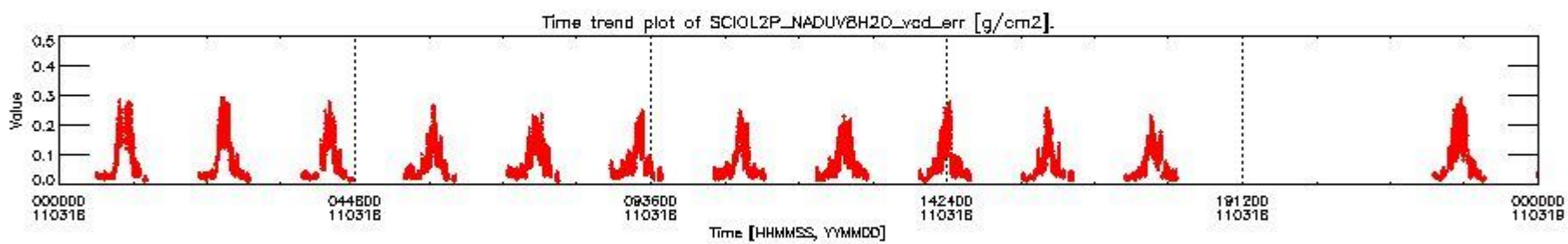
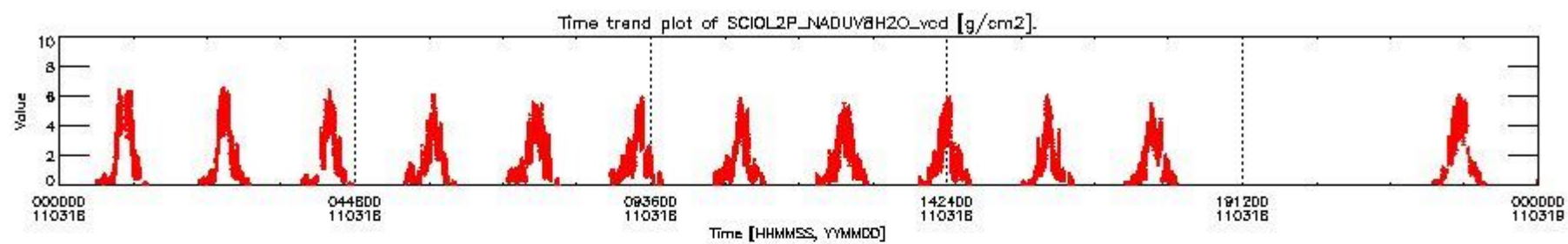
CIOL2P_NADUV6OCL_slant_col_den for 18MAR2011 00:00:00 to 19MAR2011 00:00:00 npCIOL2P_NADUV6OCL_err_slant_col for 18MAR2011 00:00:00 to 19MAR2011 00:00:00 np



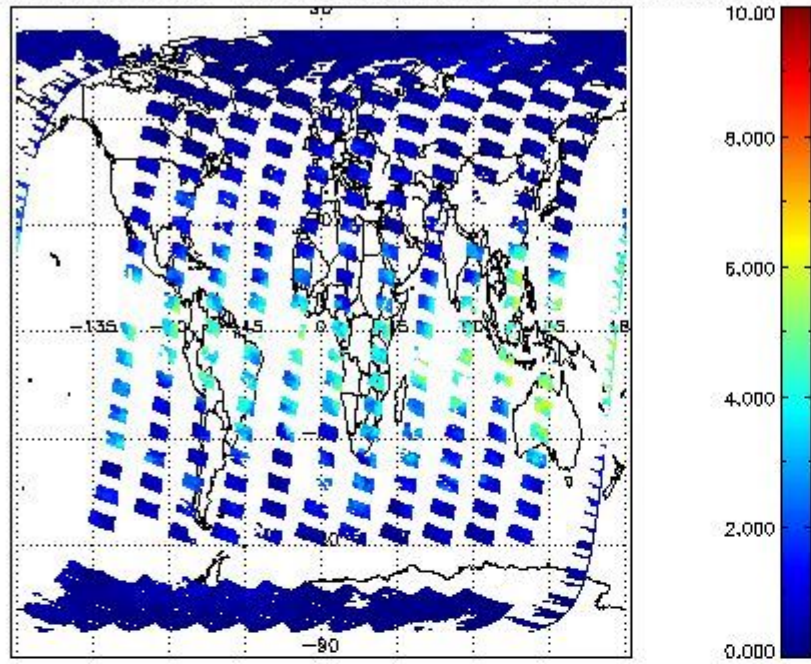
CIOL2P_NADUV6OCL_slant_coLden for 18MAR2011 00:00:00 to 19MAR2011 00:00:00 sp:CIOL2P_NADUV6OCL_err_slant_col for 18MAR2011 00:00:00 to 19MAR2011 00:00:00 sp



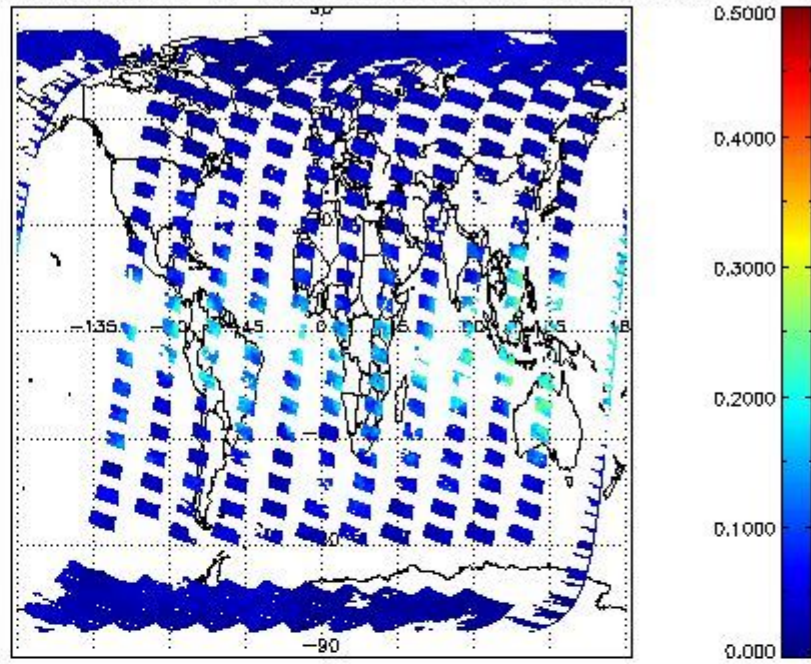
2.2.2.7 H₂O (UV8)



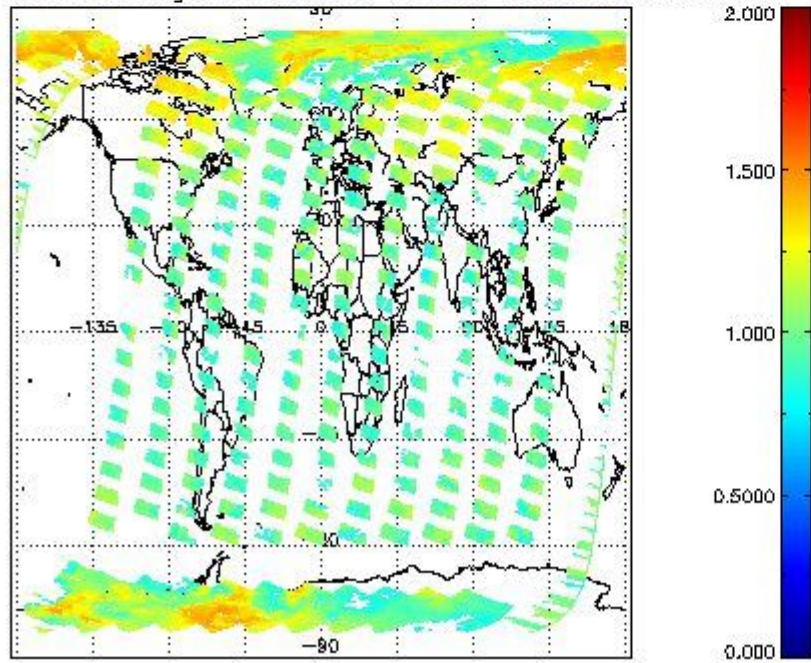
SCIOL2P_NADUV8H2O_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



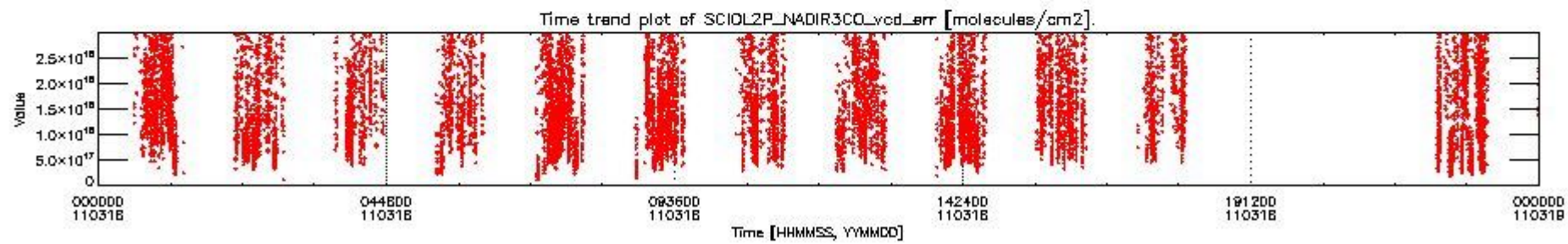
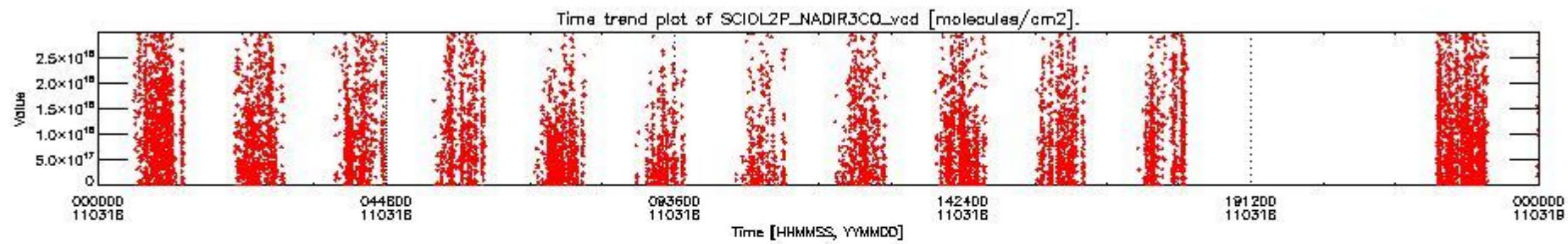
SCIOL2P_NADUV8H2O_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



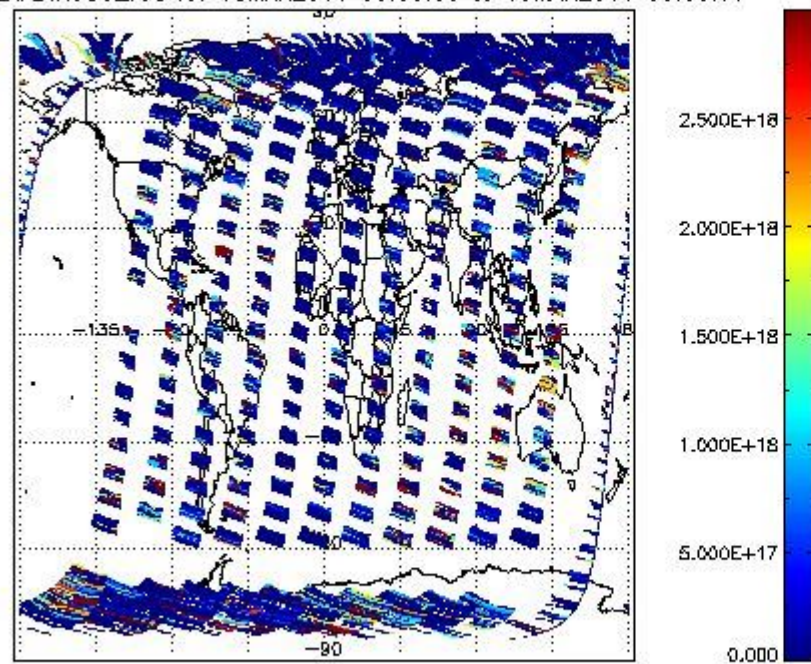
SCIOL2P_NADUV8H2O_arnf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



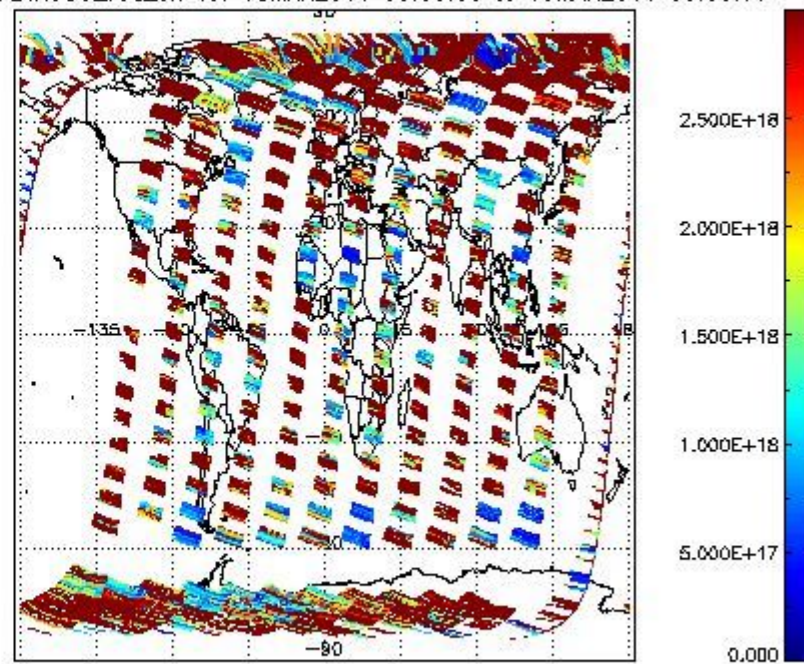
2.2.2.8 CO (IR3)



SCIOL2P_NADIR3CO_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



SCIOL2P_NADIR3CO_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



2.2.3 Limb

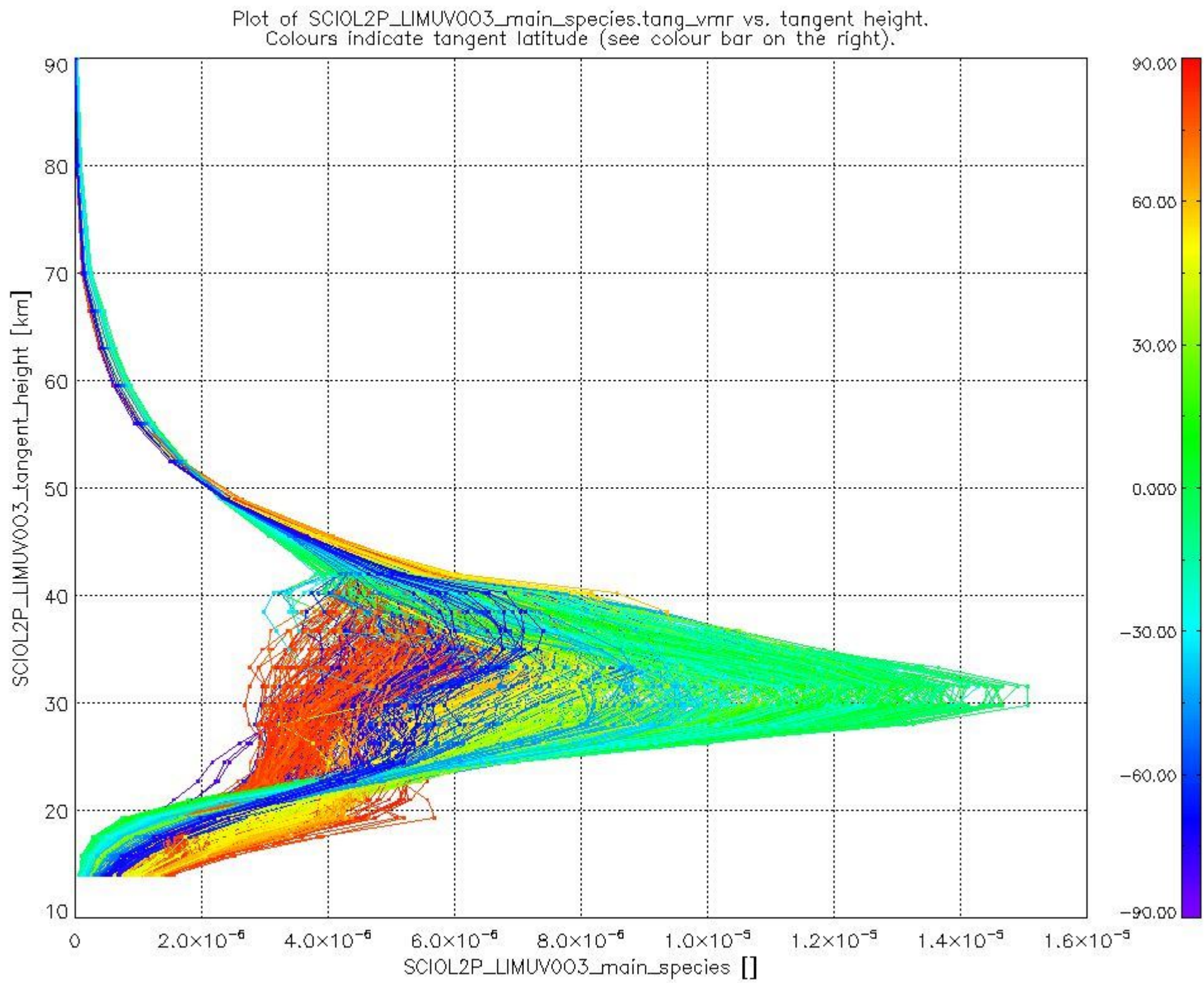
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_LIMUV003_main_species
1	SCIOL2P_LIMUV1NO2_main_species
2	SCIOL2P_LIMUV3BRO_main_species

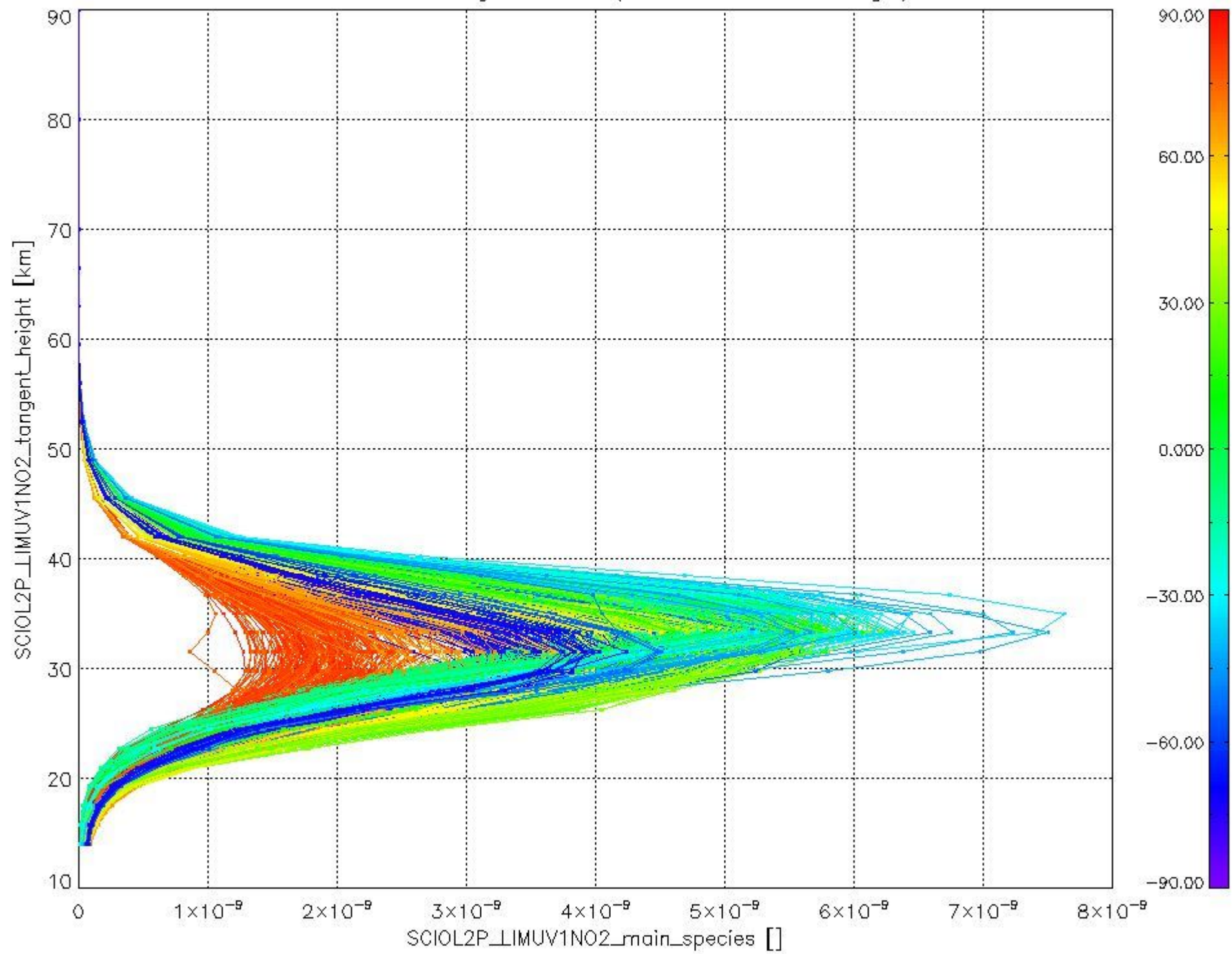
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



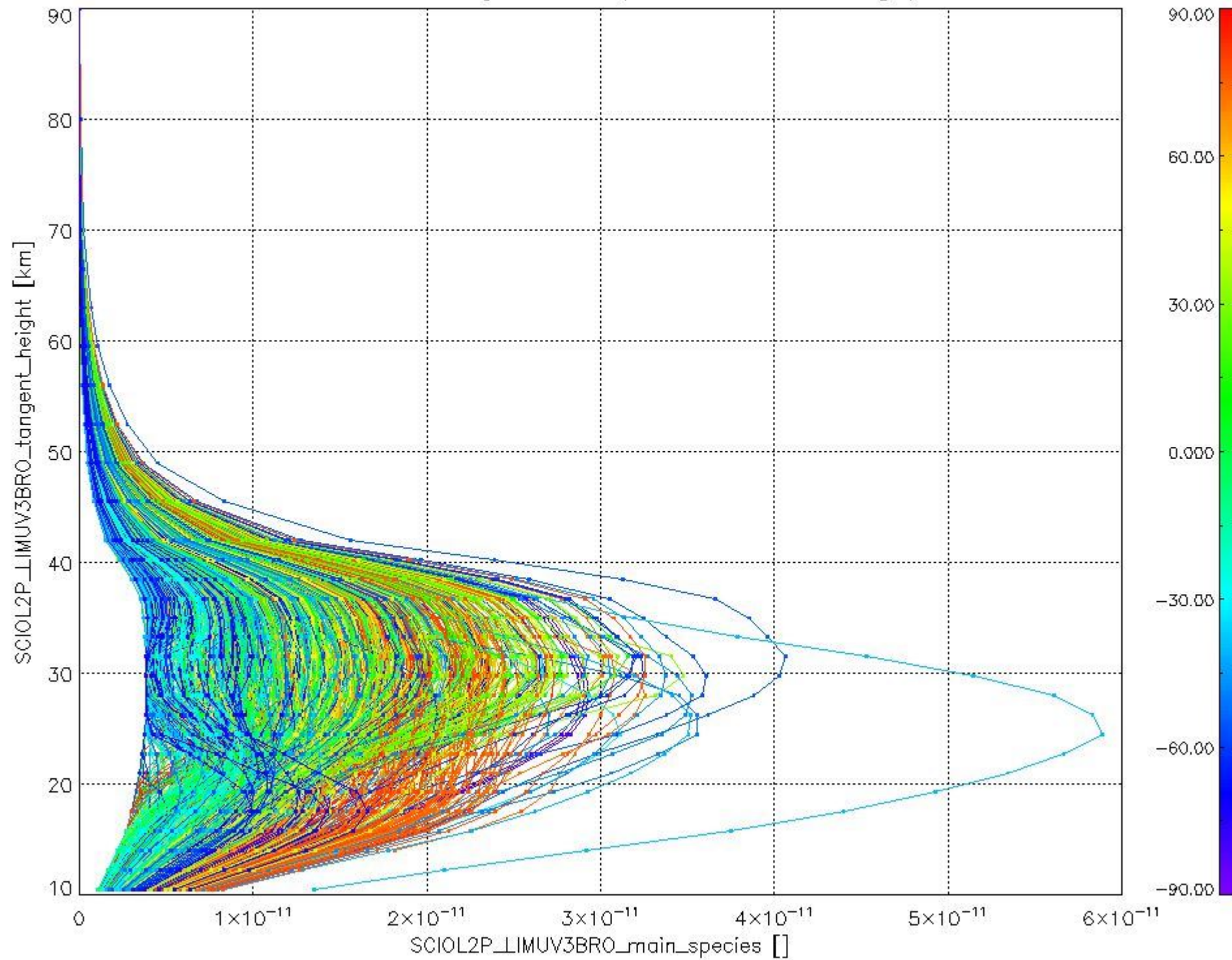
2.2.3.2 NO2 (UV1)

Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

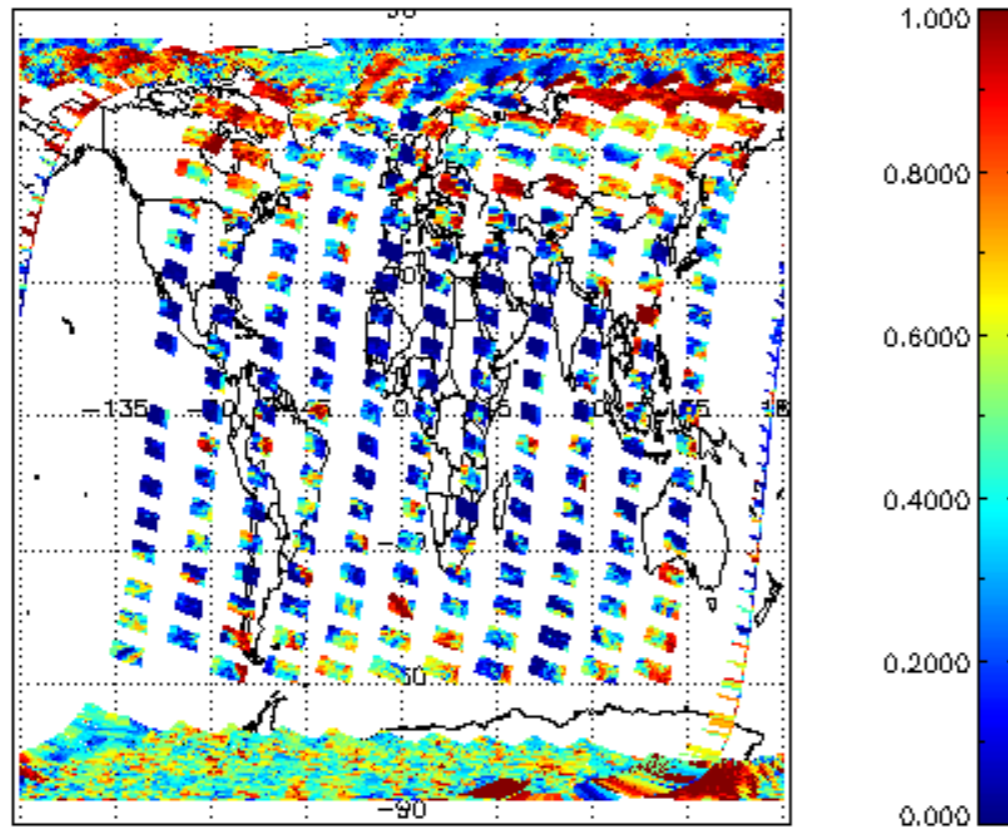
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



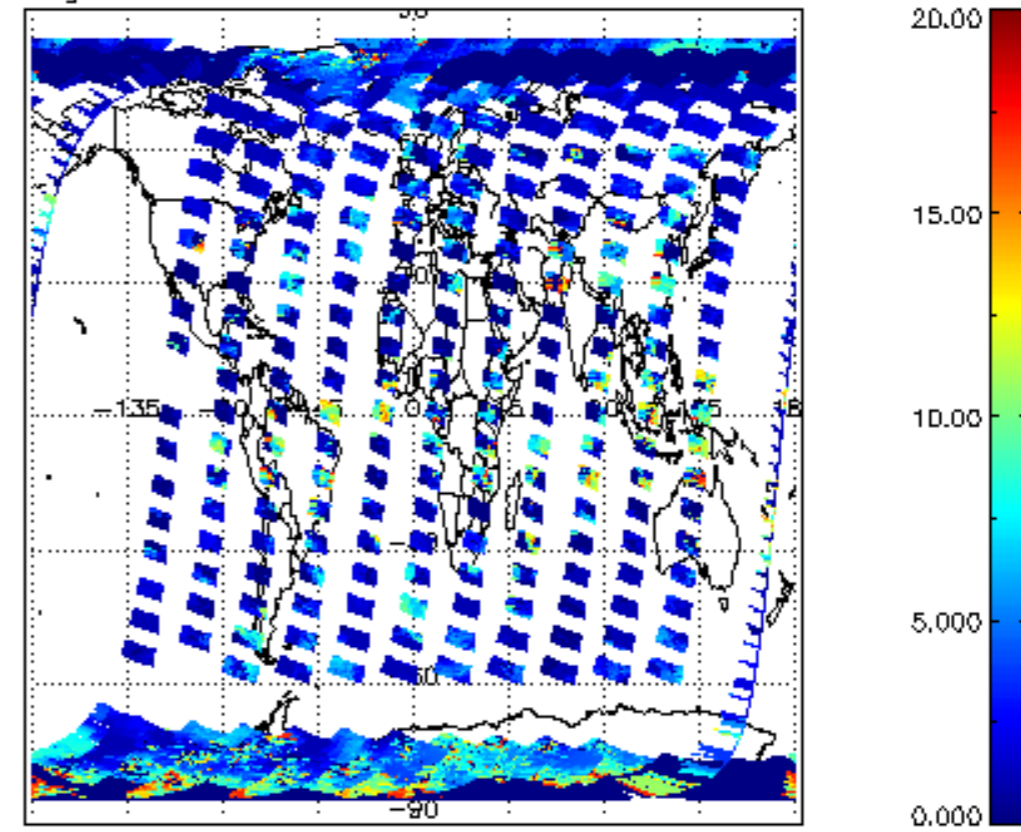
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20090615_120000_20090615_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110315_111004_20110317_185829_20110319_185829
3	SCI_MF1_AXVIEC20110315_111109_20110318_182143_20110320_182143

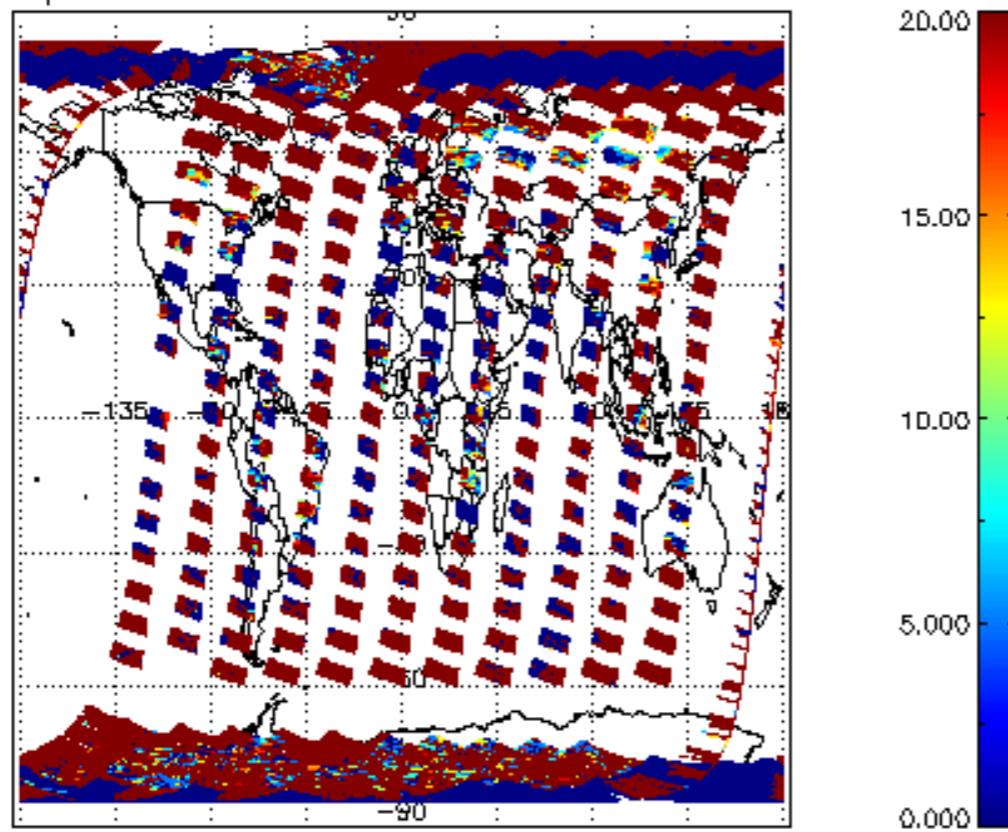
cL_frac for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



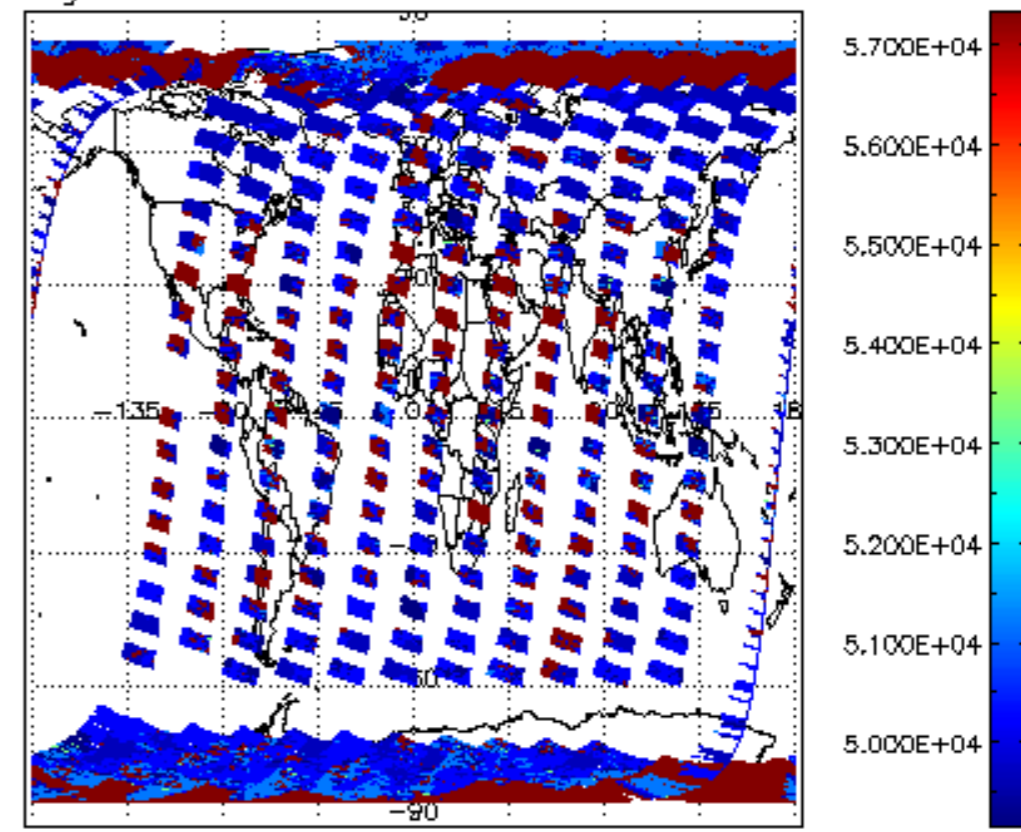
cL_top_height for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

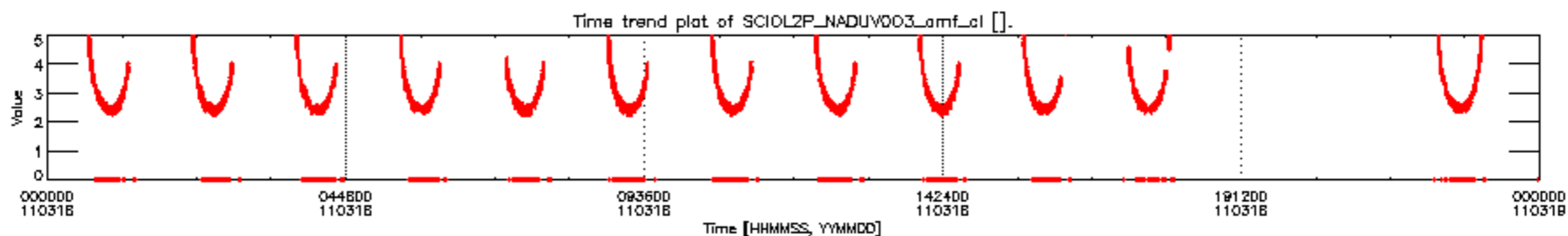
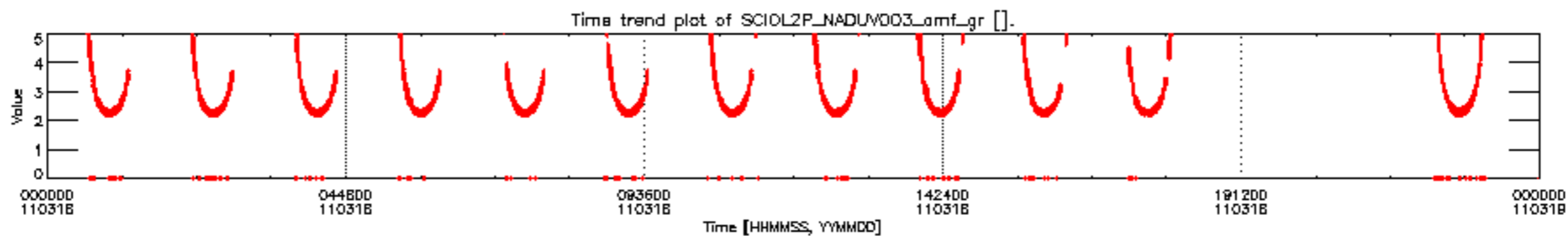
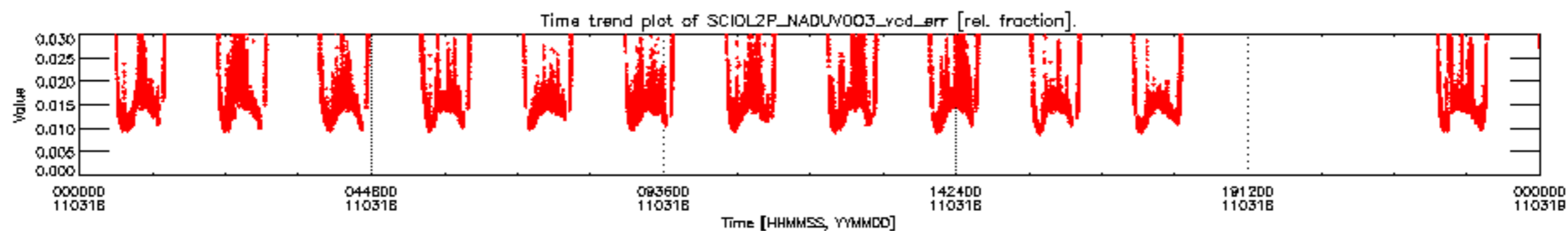
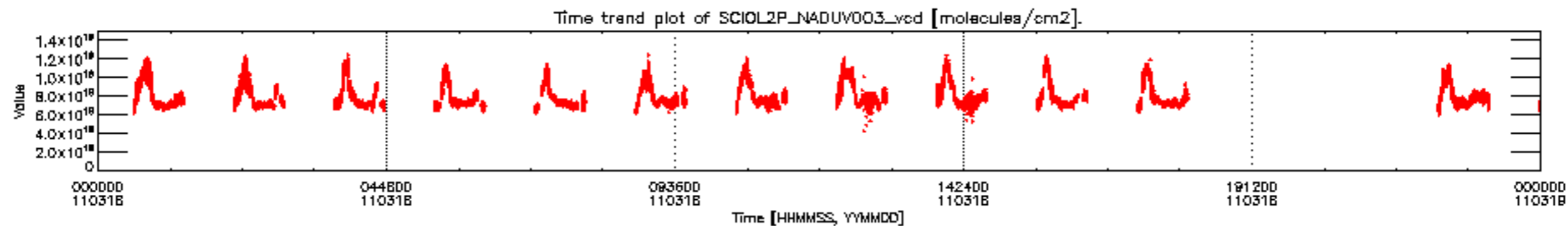


cL_opt_depth for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

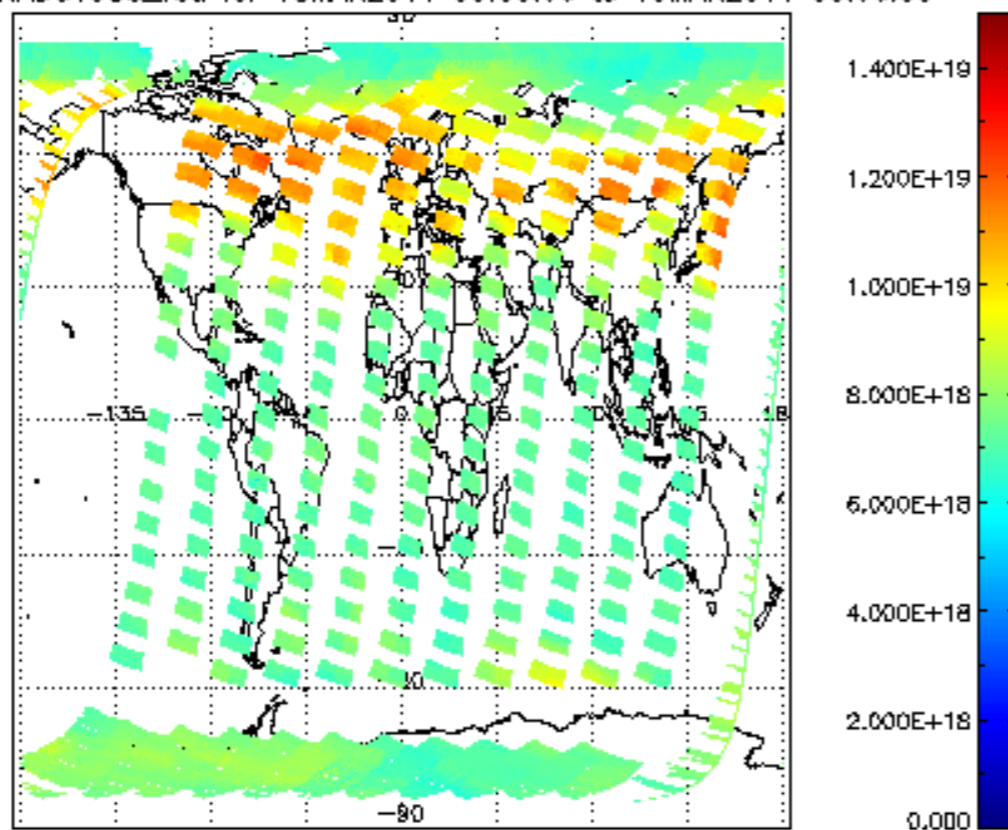


cloud_flags for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

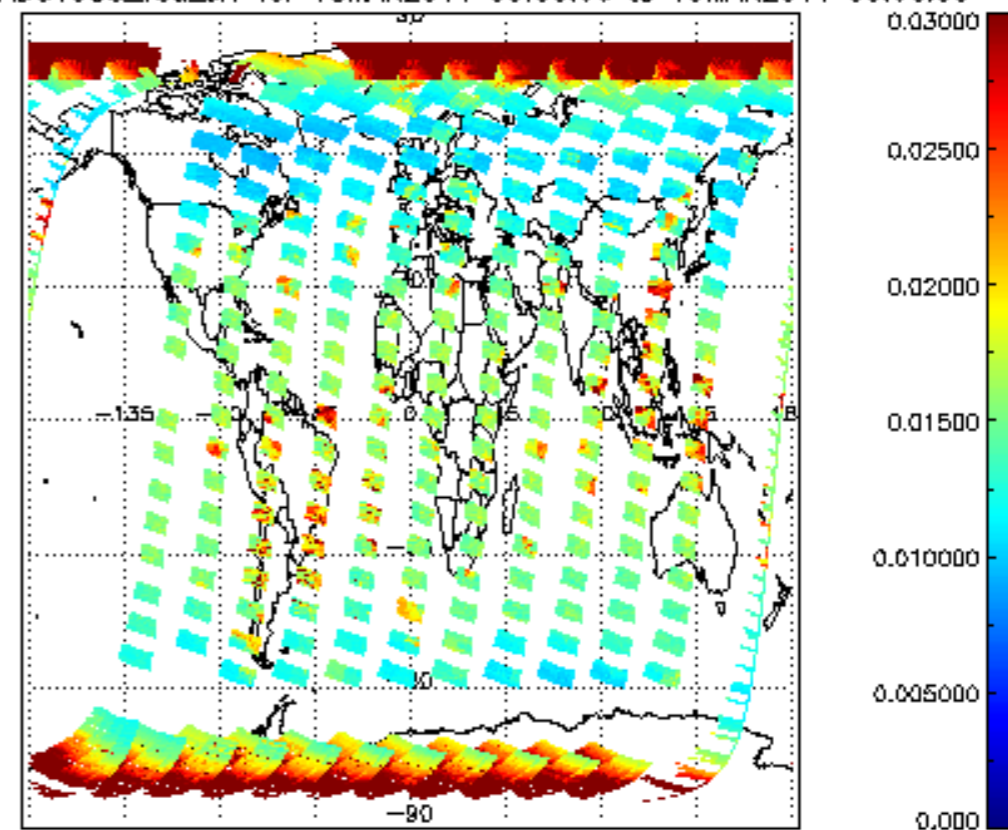




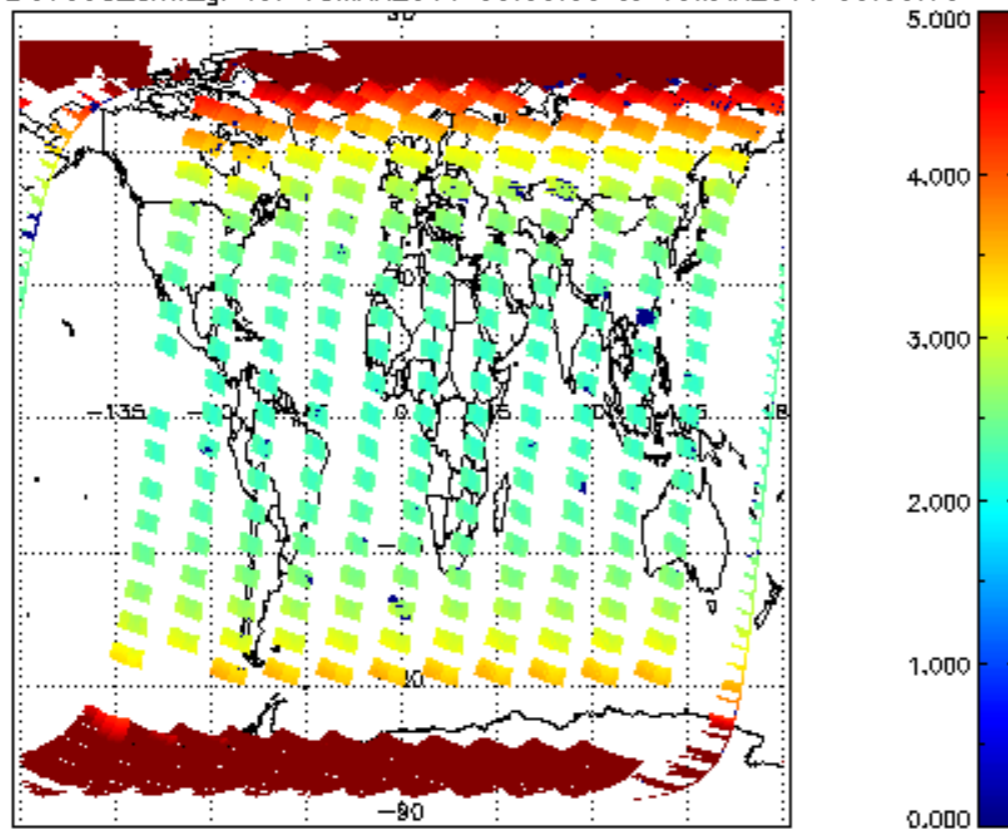
SCIOL2P_NADUV003_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



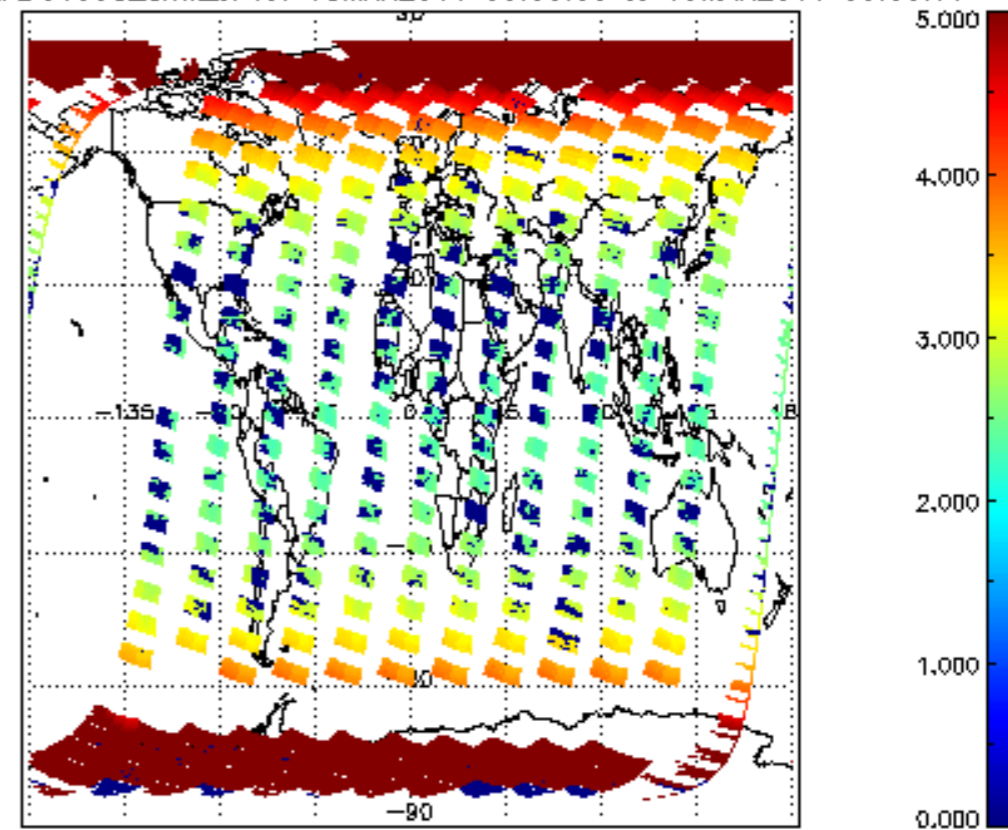
SCIOL2P_NADUV003_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

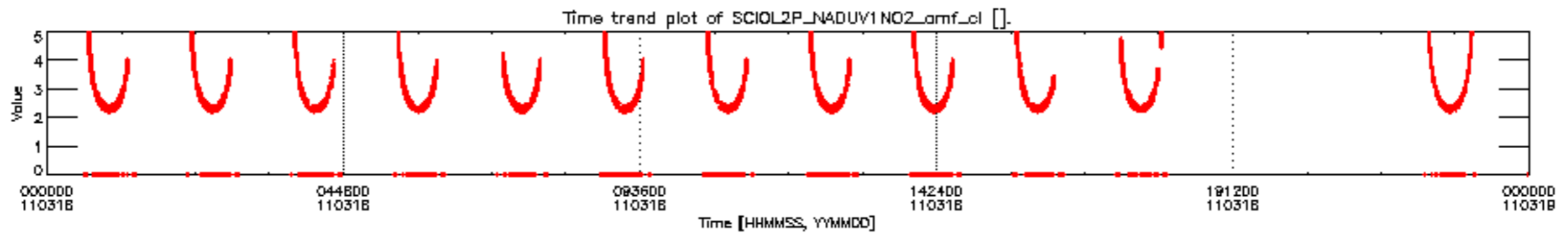
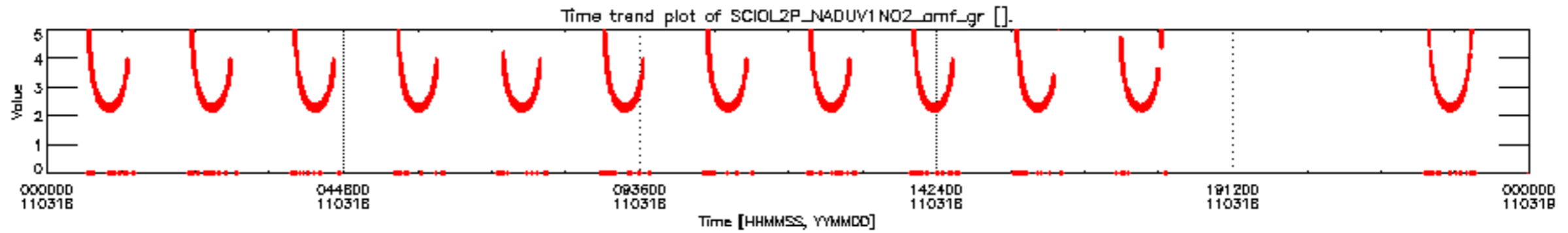
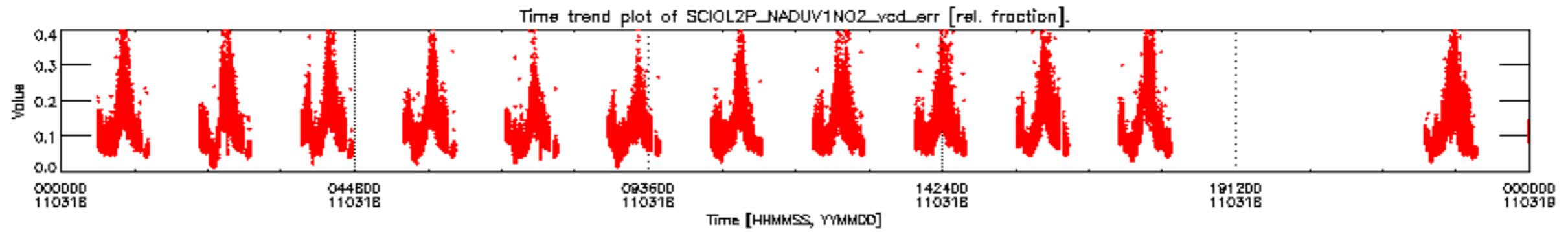
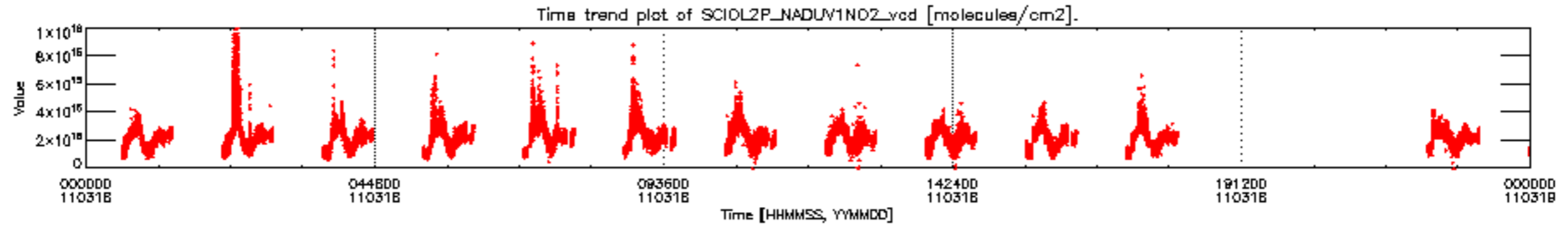


SCIOL2P_NADUV003_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

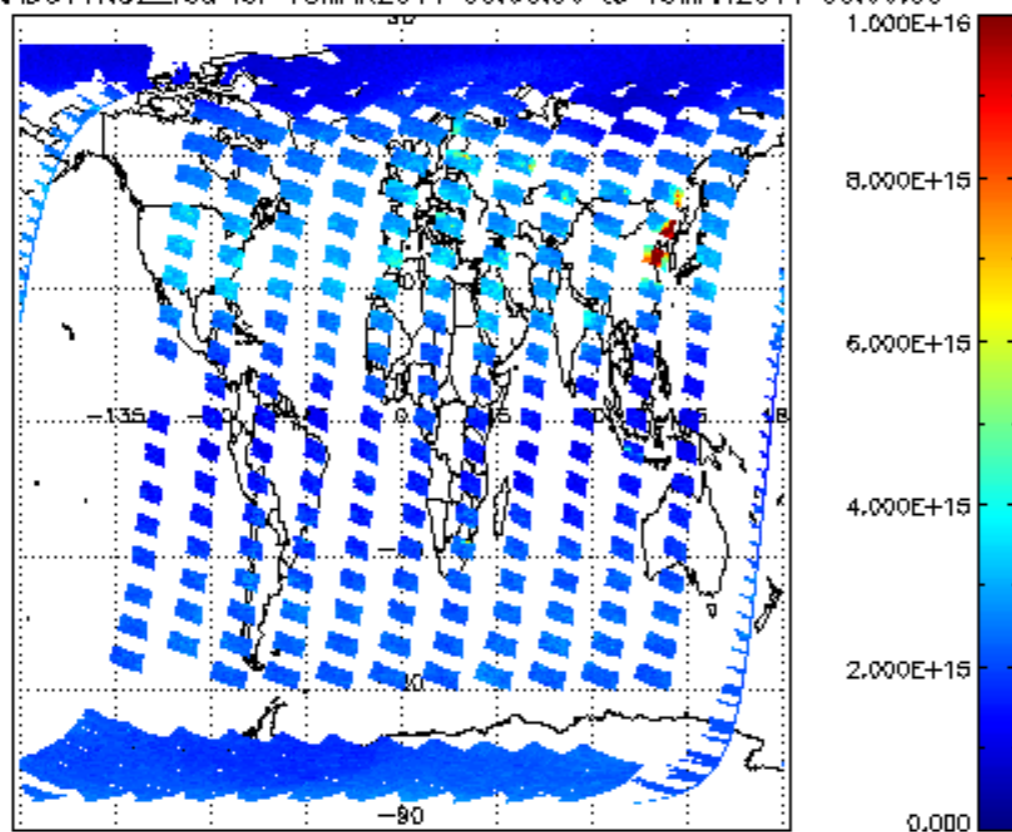


SCIOL2P_NADUV003_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

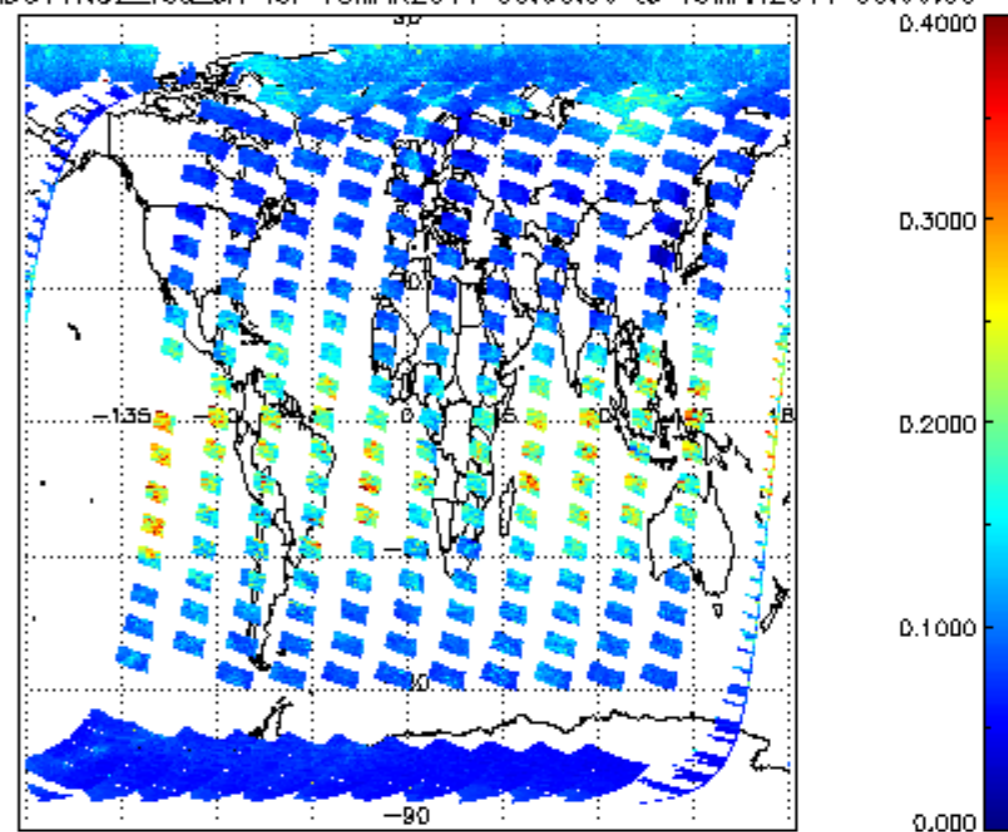




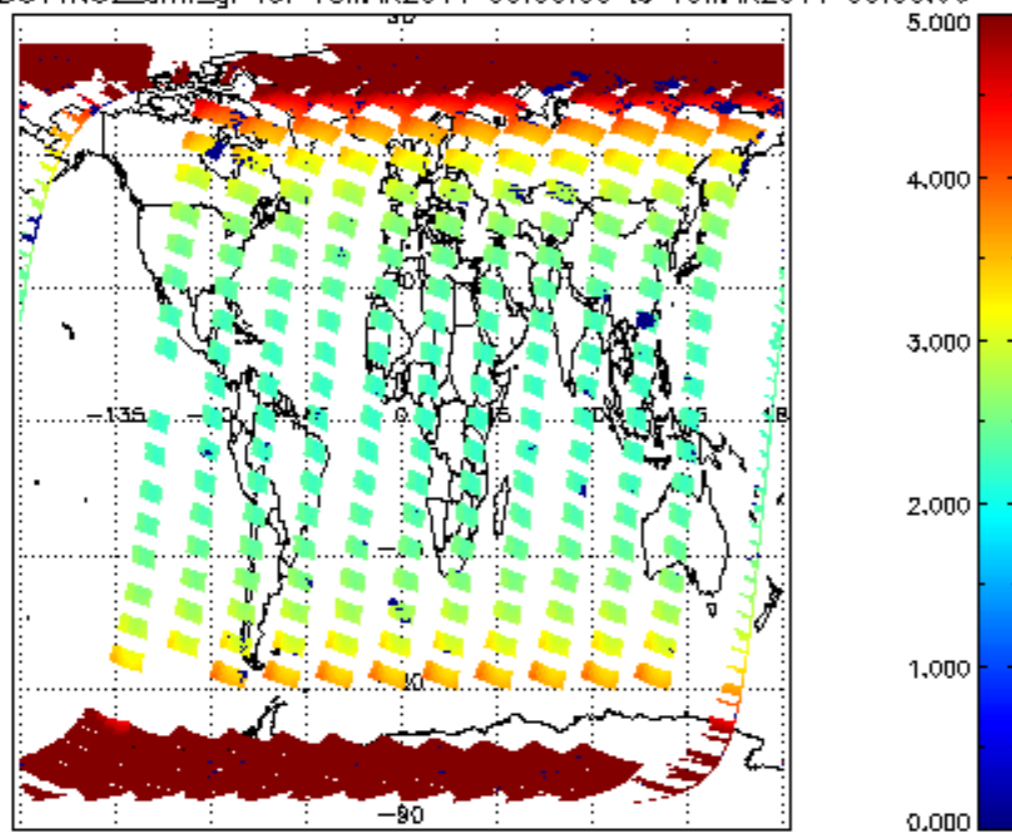
SCIOL2P_NADUV1NO2_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



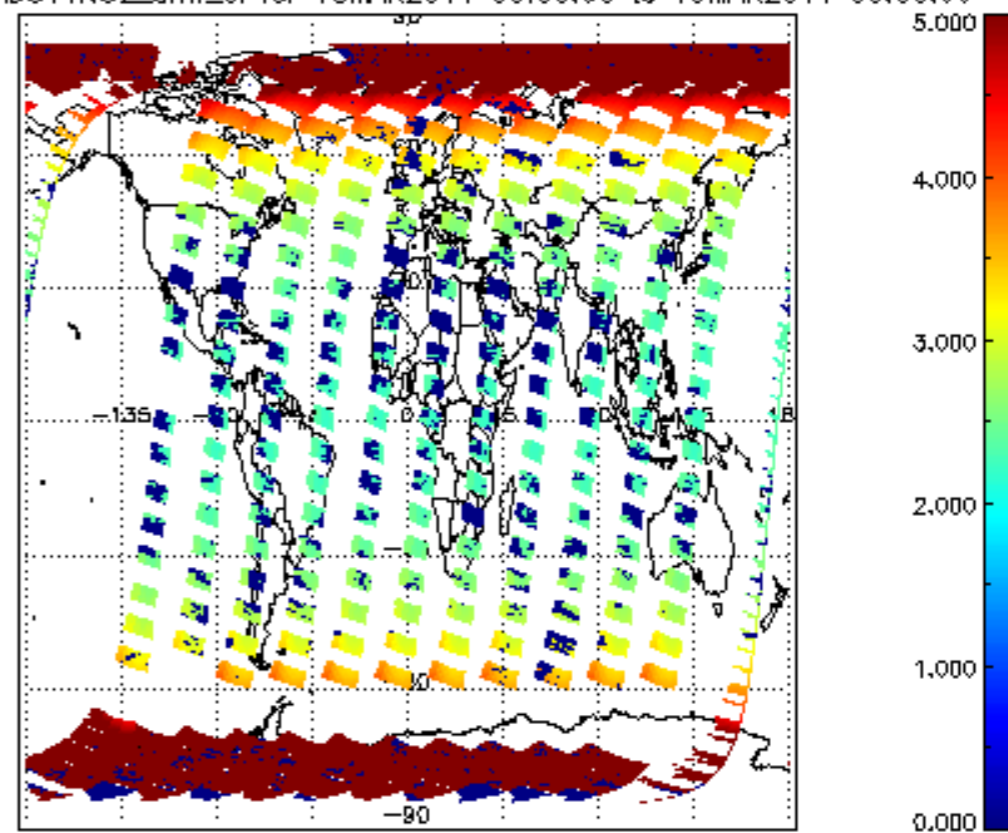
SCIOL2P_NADUV1NO2_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

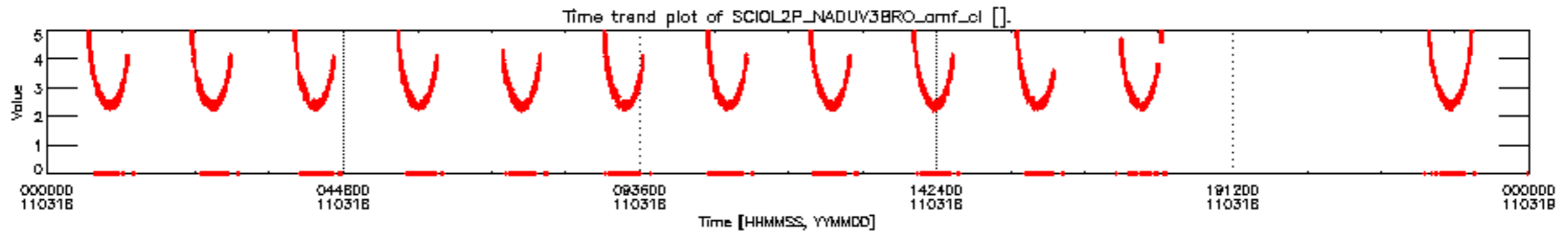
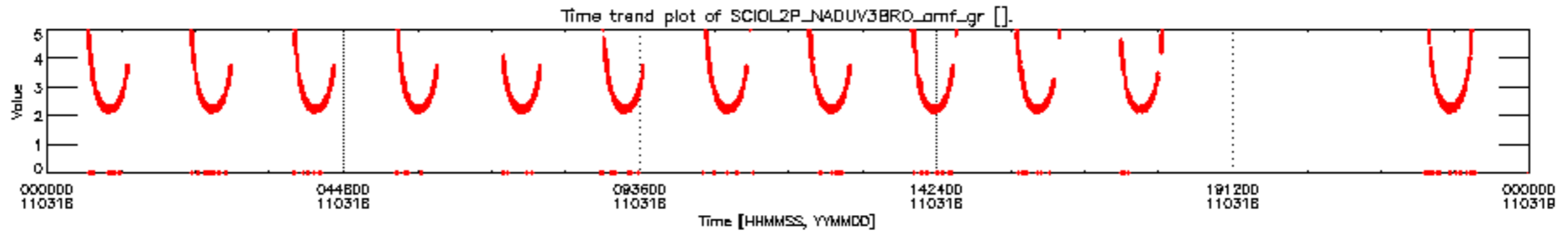
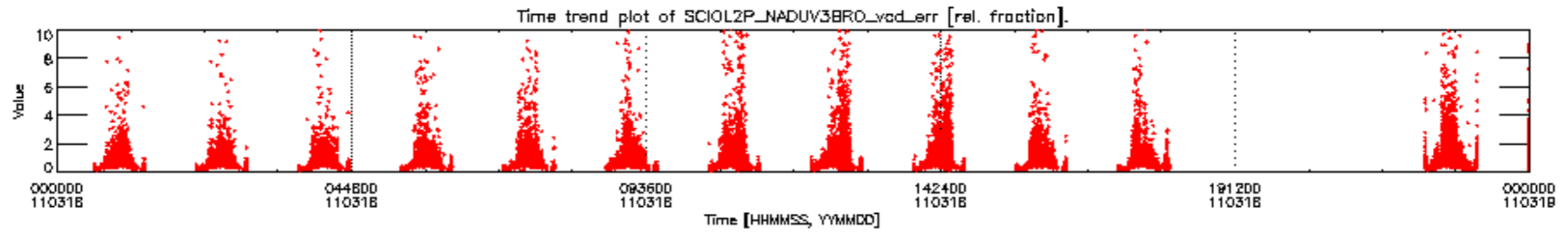
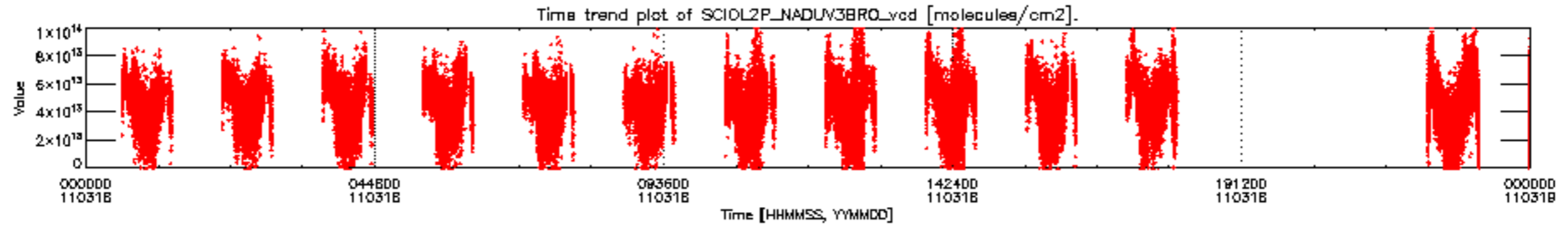


SCIOL2P_NADUV1NO2_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

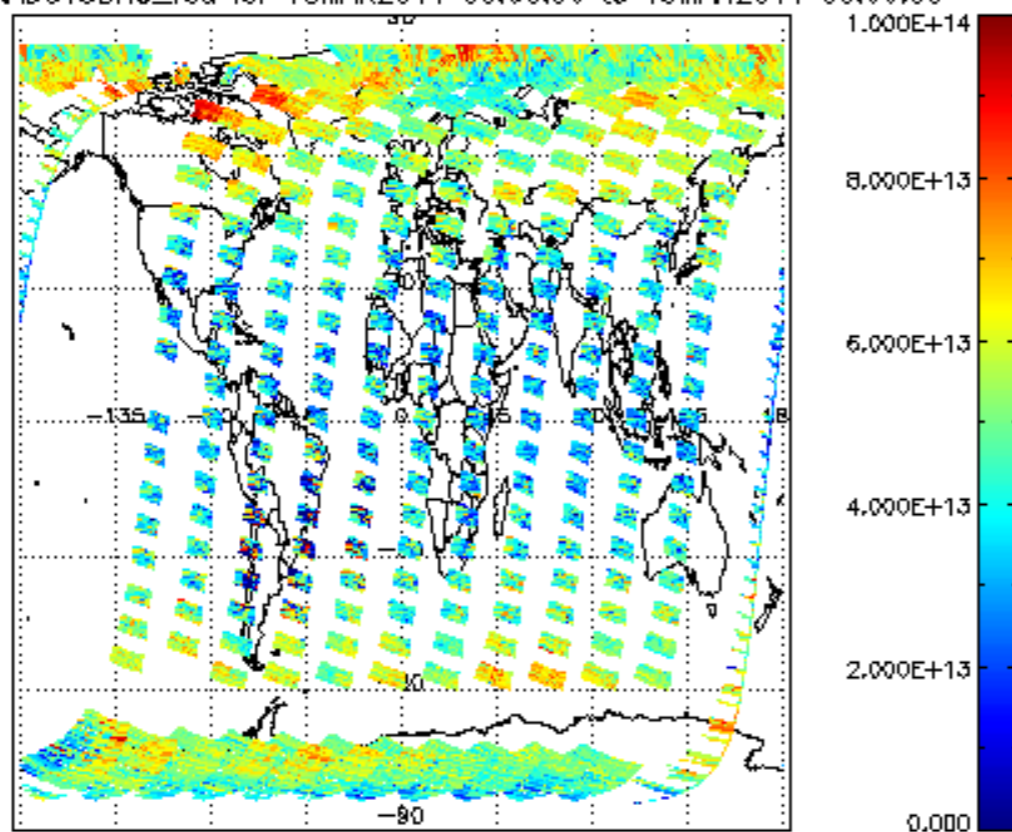


SCIOL2P_NADUV1NO2_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

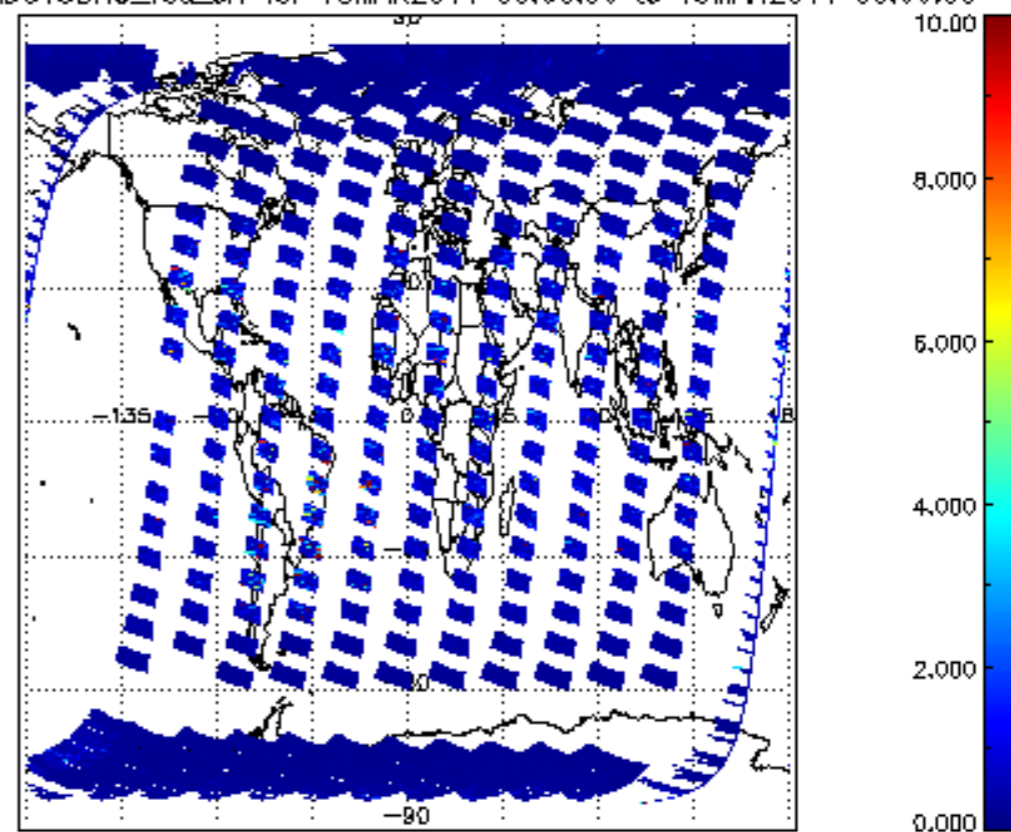




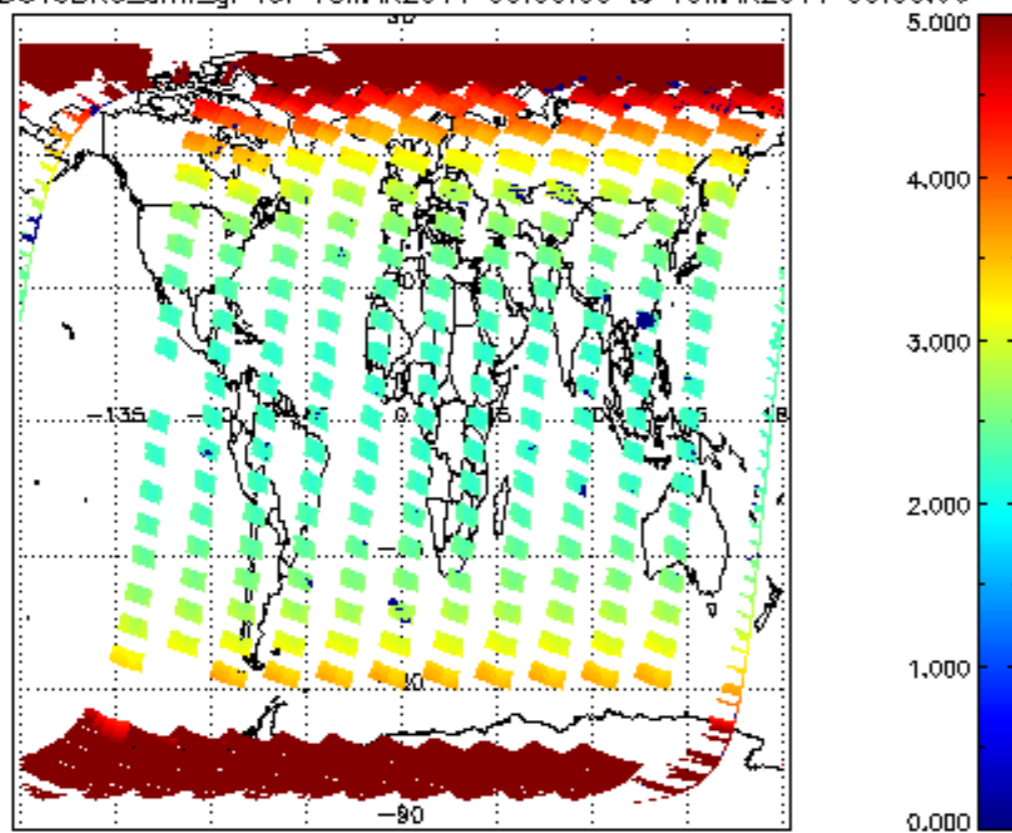
SCIOL2P_NADUV3BRO_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



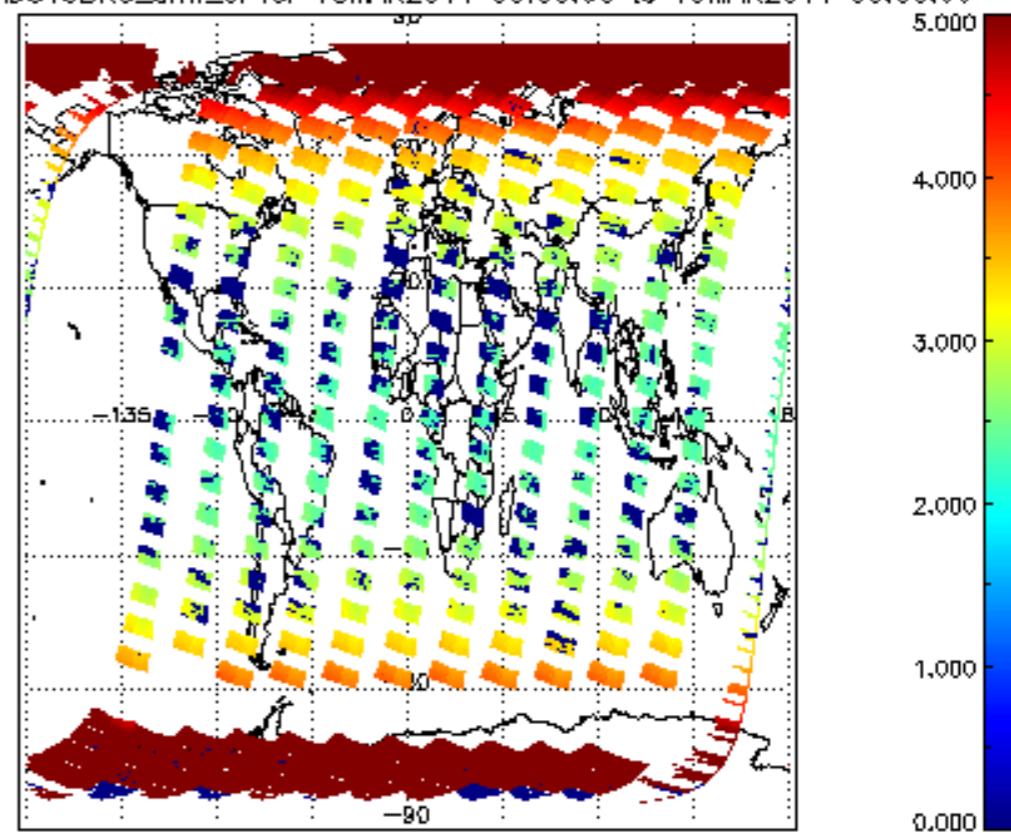
SCIOL2P_NADUV3BRO_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

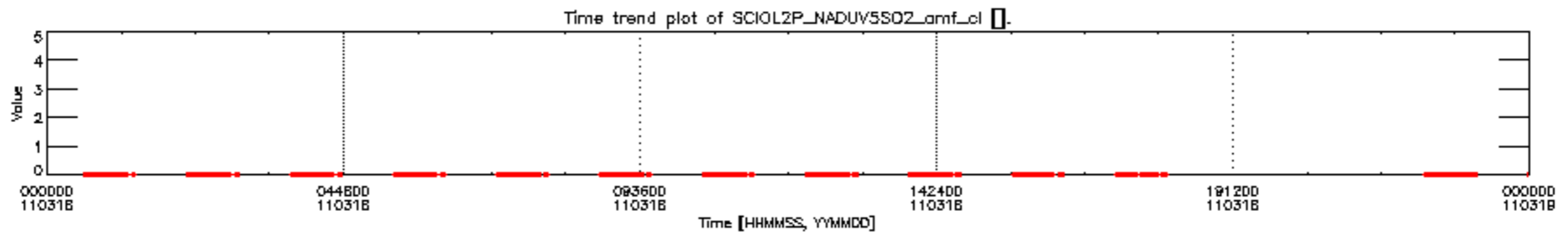
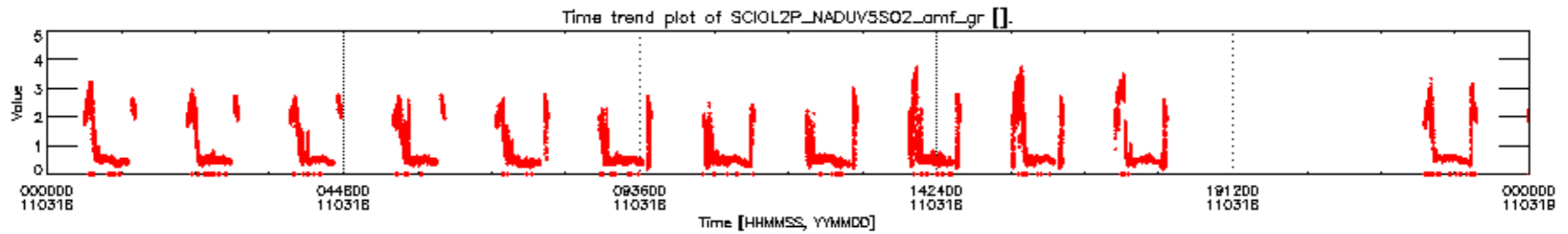
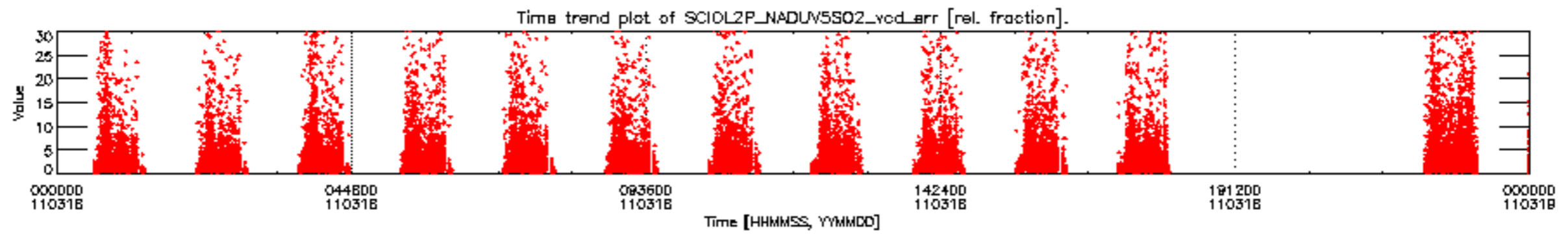
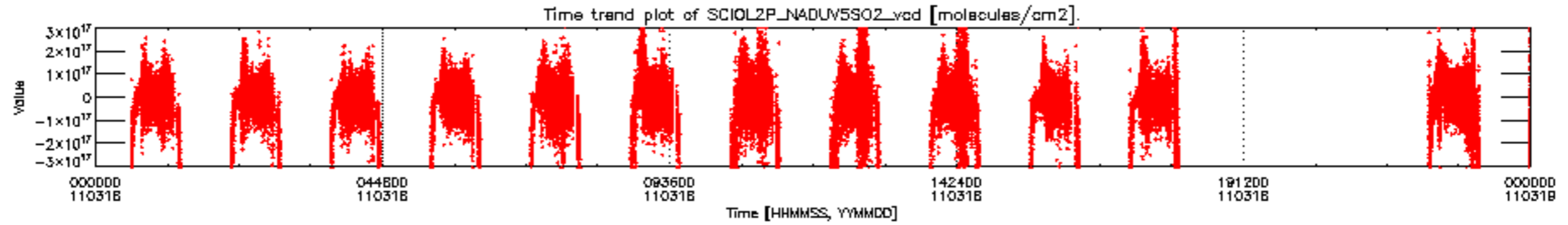


SCIOL2P_NADUV3BRO_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

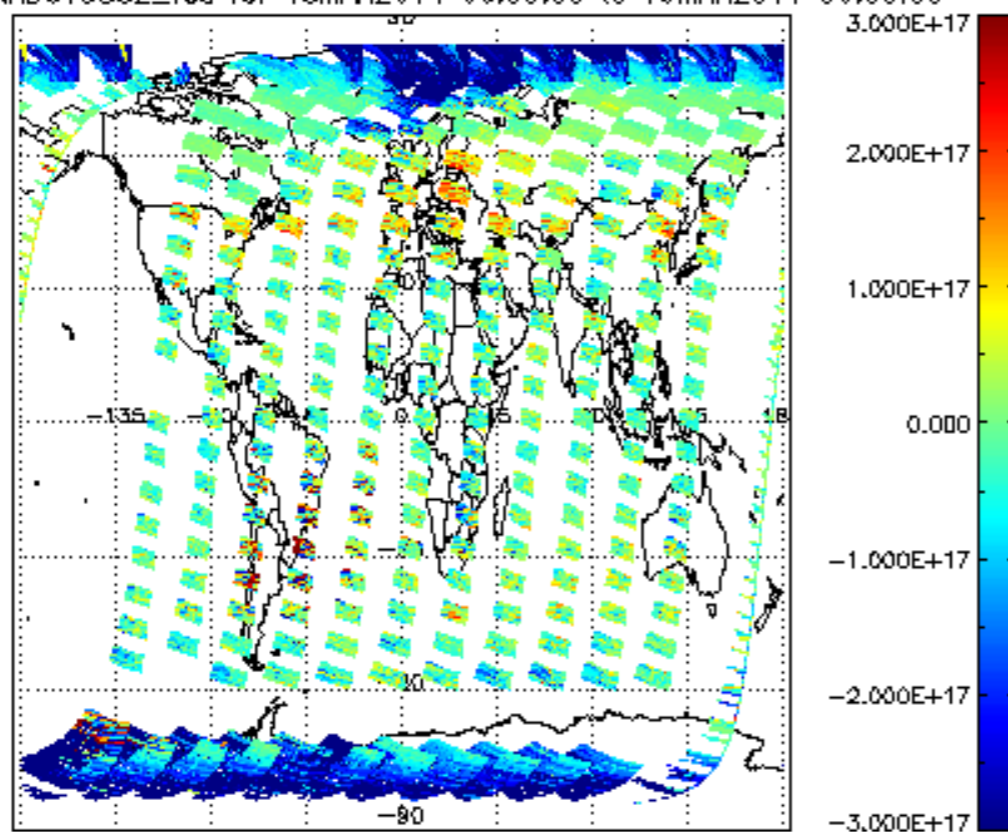


SCIOL2P_NADUV3BRO_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

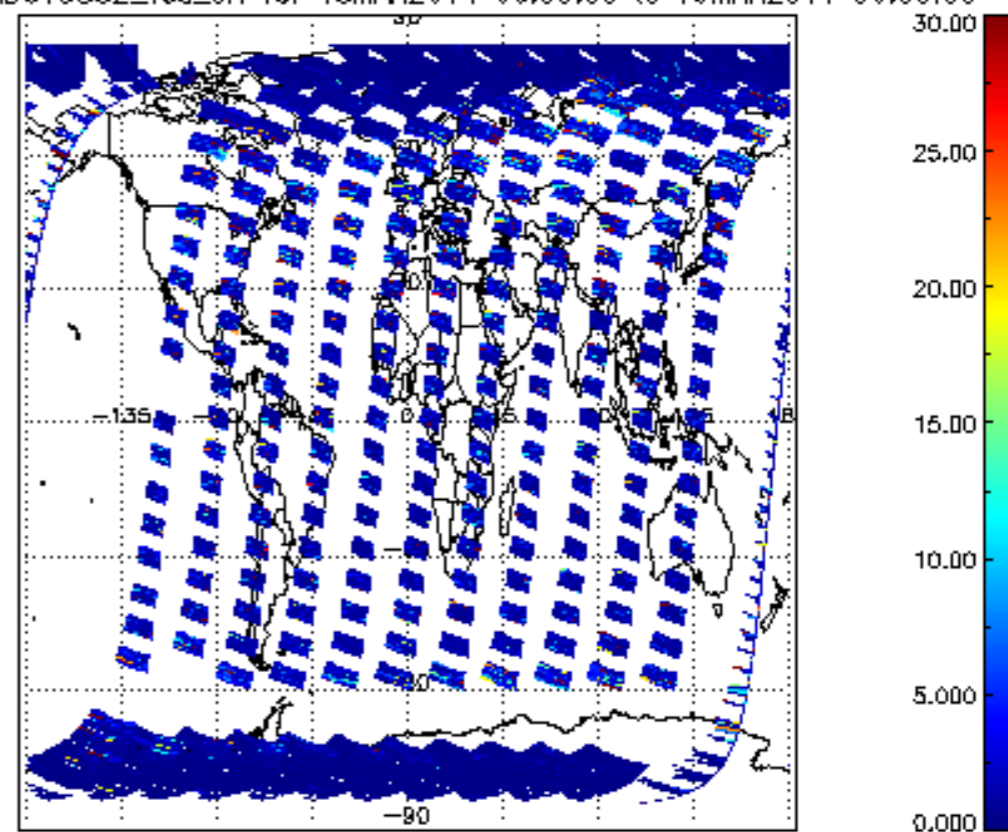




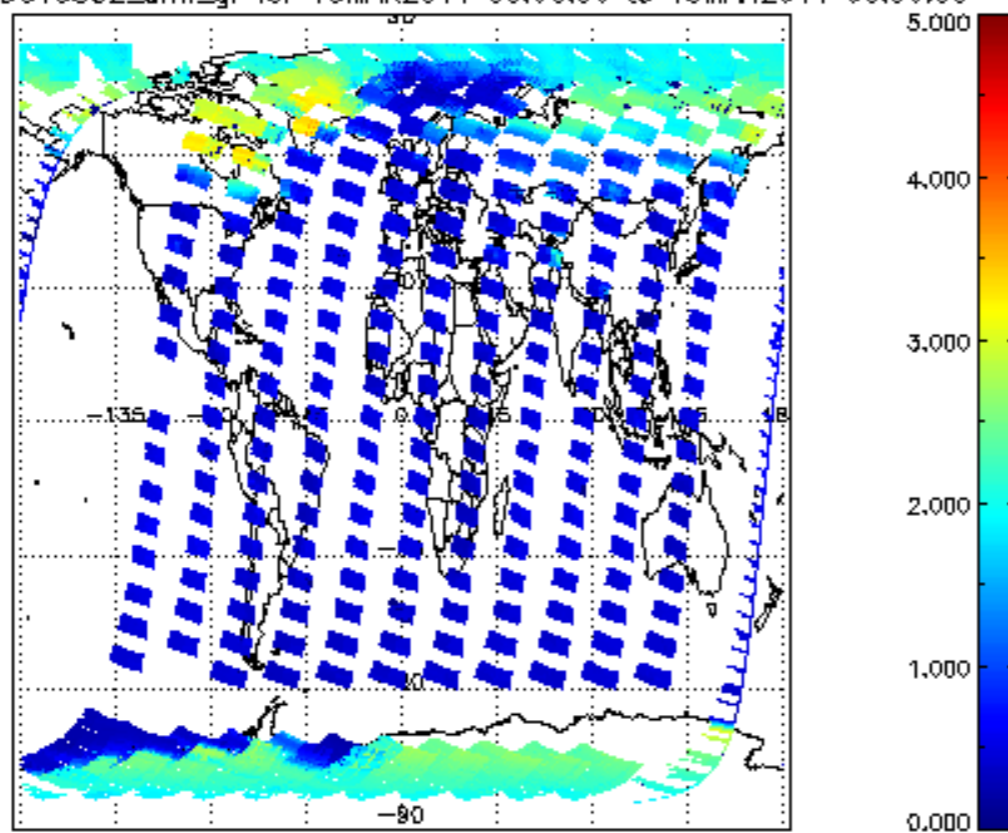
SCIOL2P_NADUV5S02_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



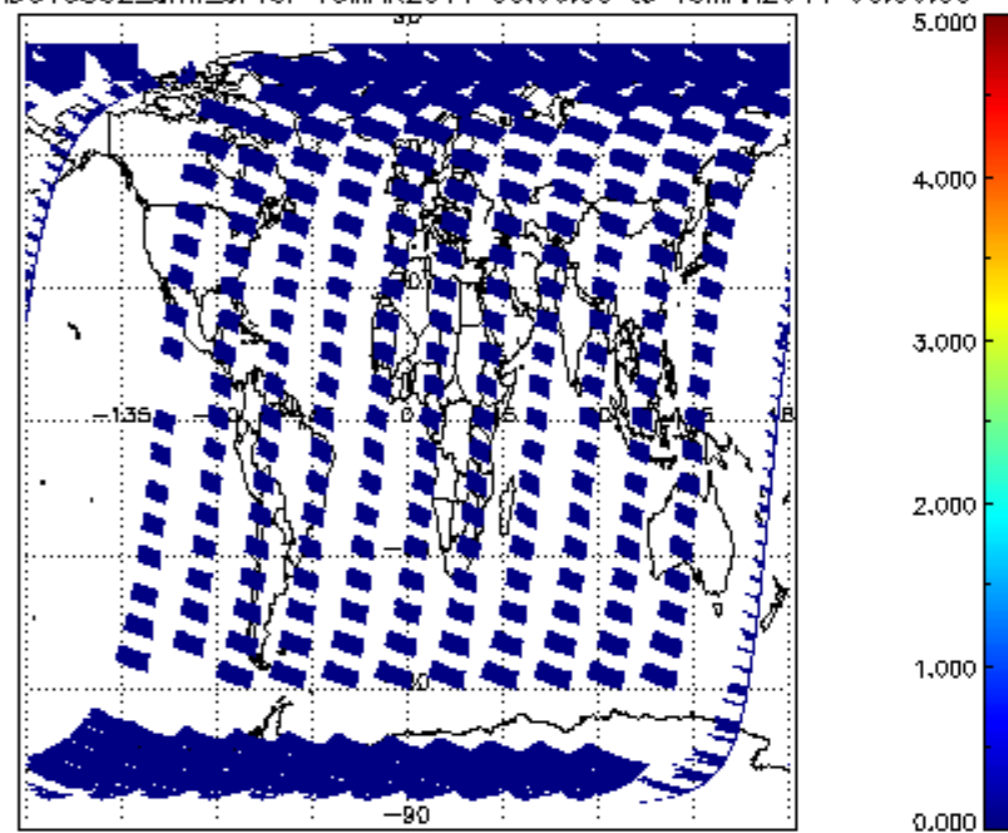
SCIOL2P_NADUV5S02_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

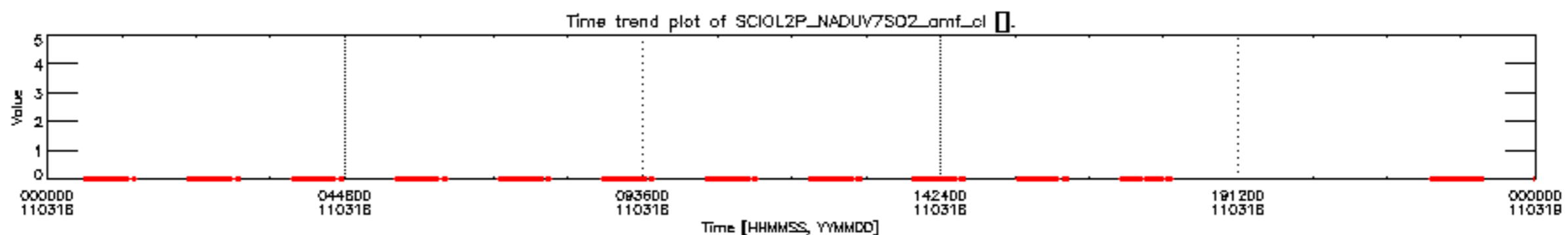
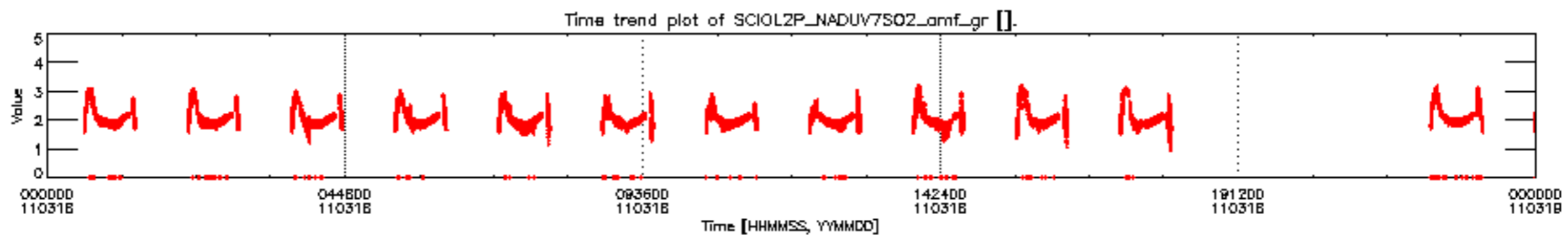
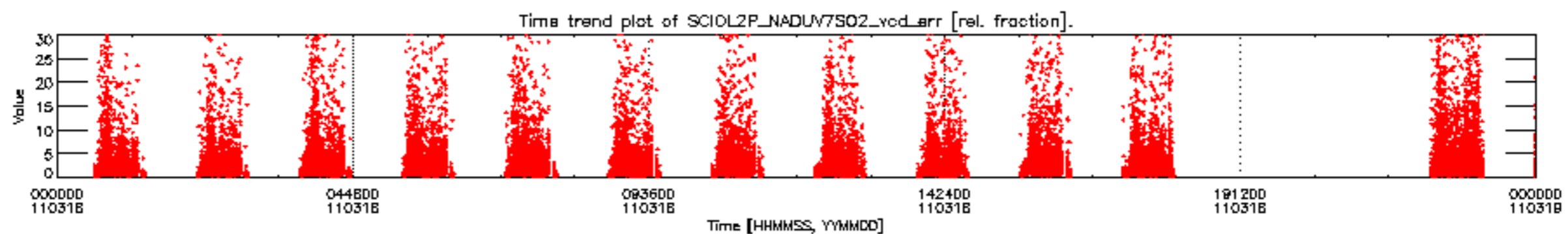
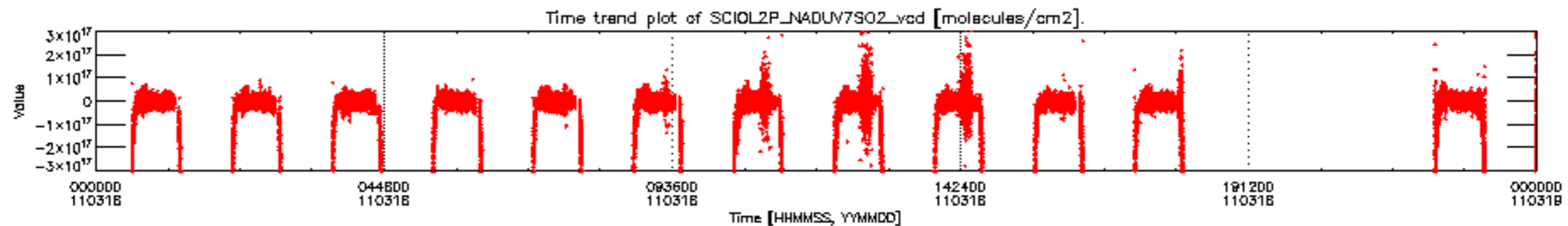


SCIOL2P_NADUV5S02_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

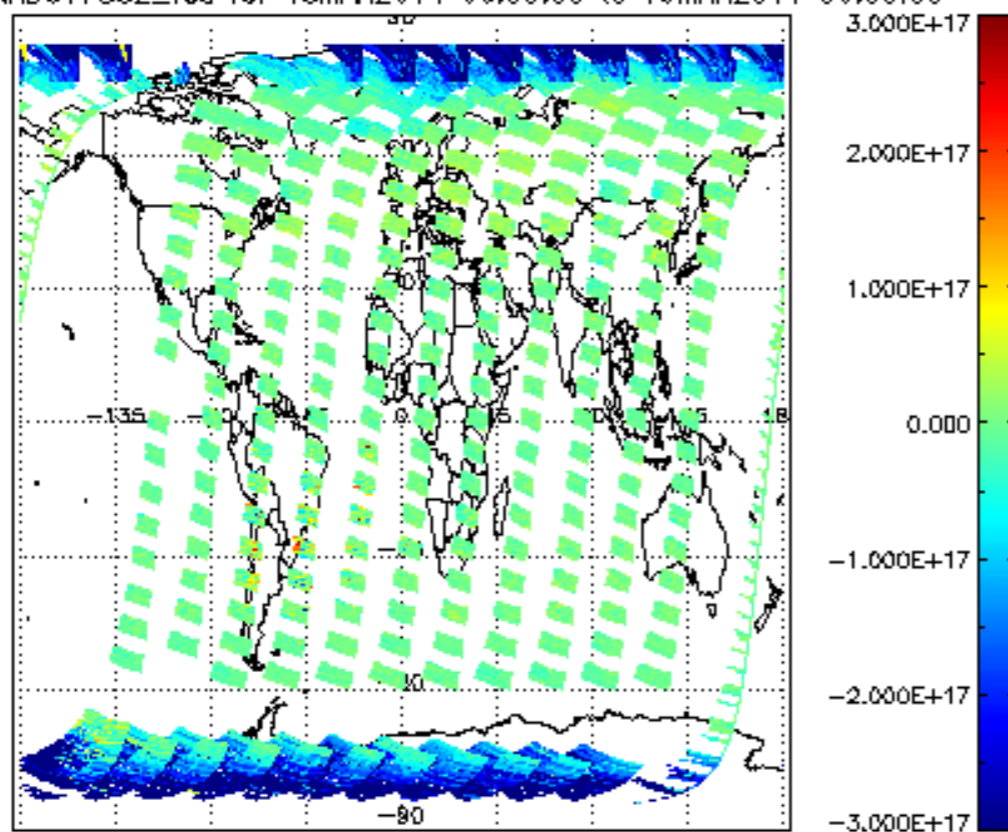


SCIOL2P_NADUV5S02_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

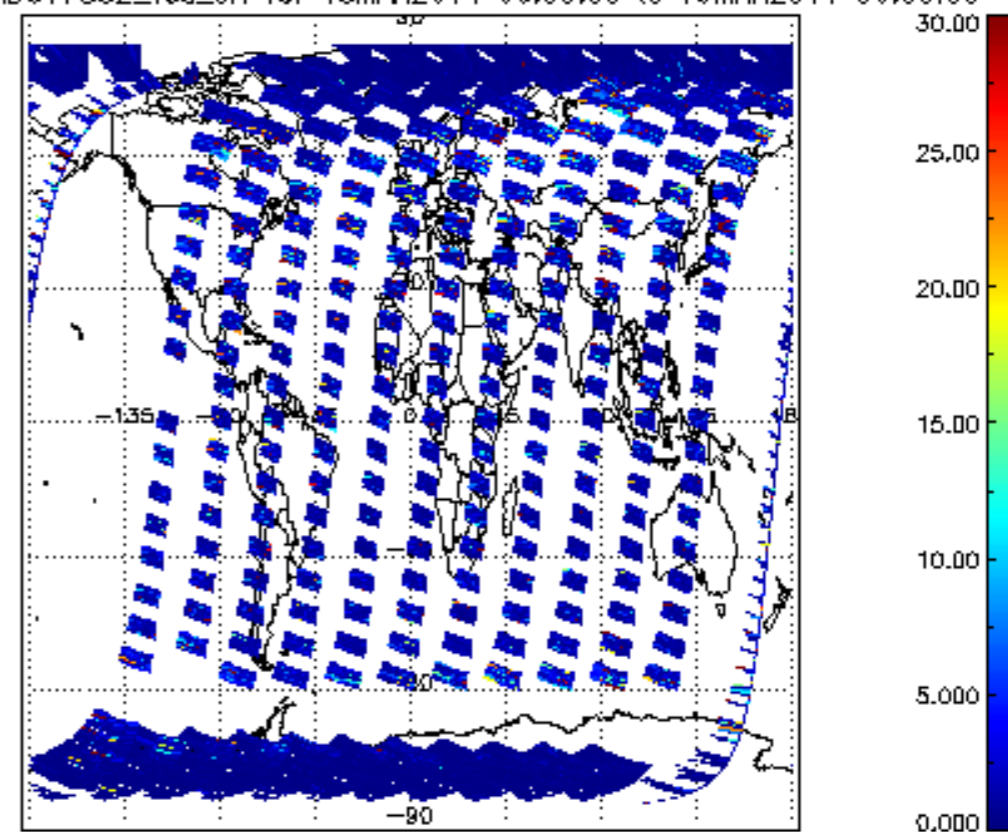




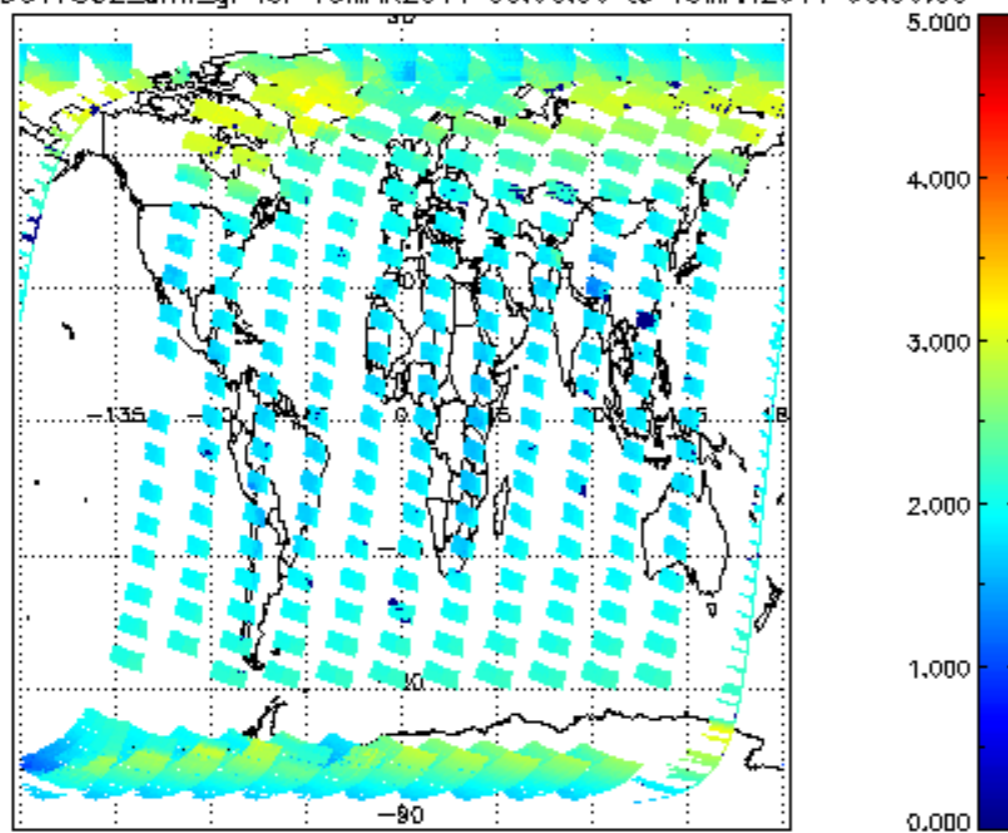
SCIOL2P_NADUV7S02_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



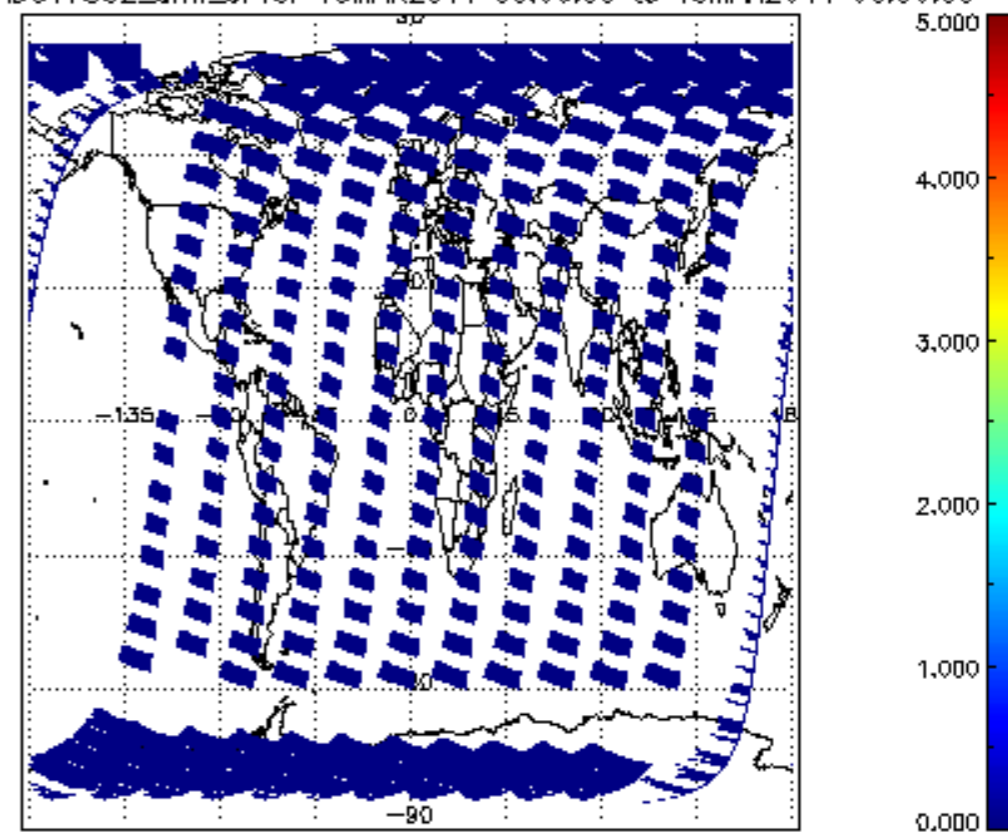
SCIOL2P_NADUV7S02_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

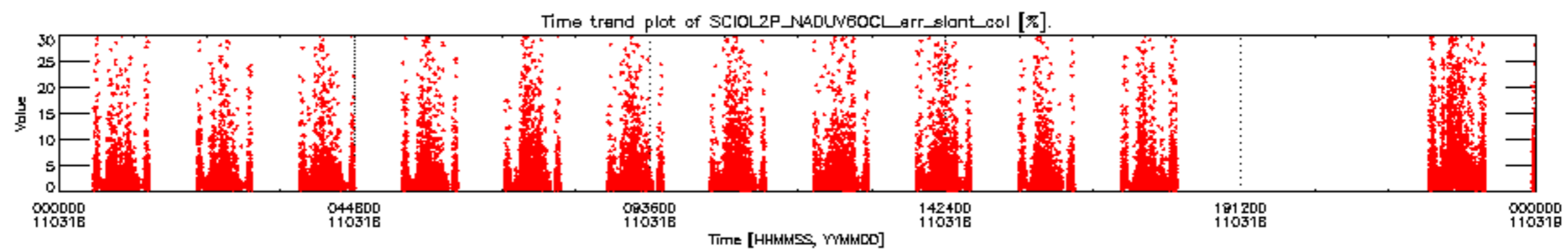
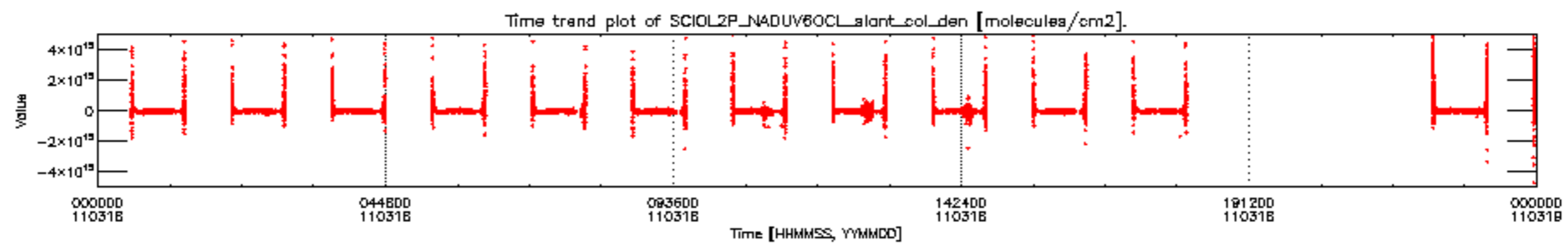


SCIOL2P_NADUV7S02_amf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

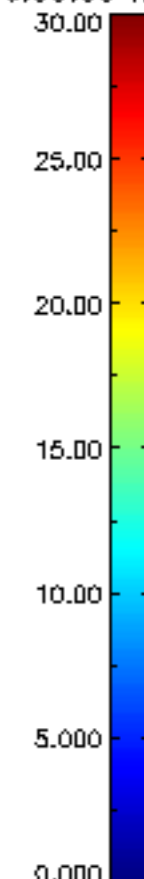
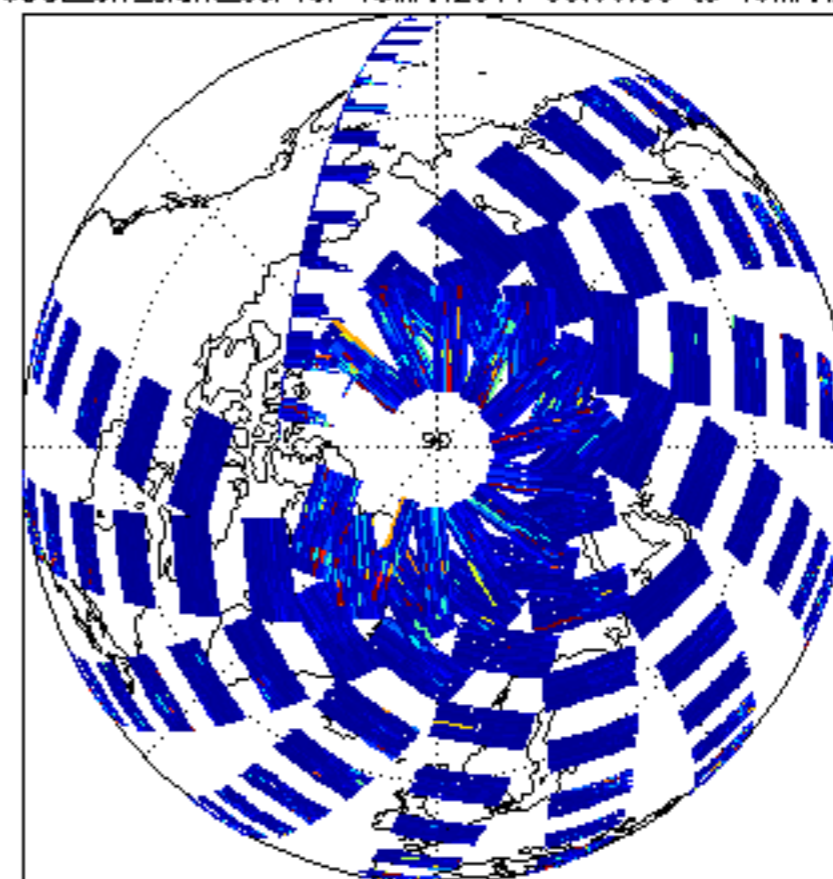
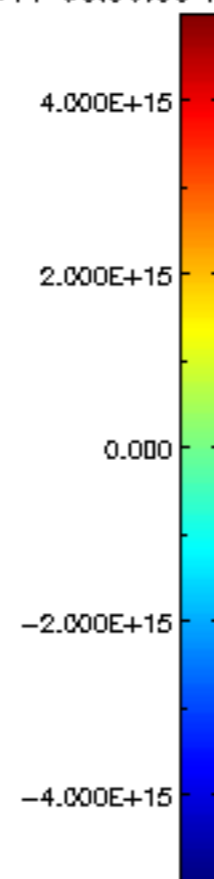
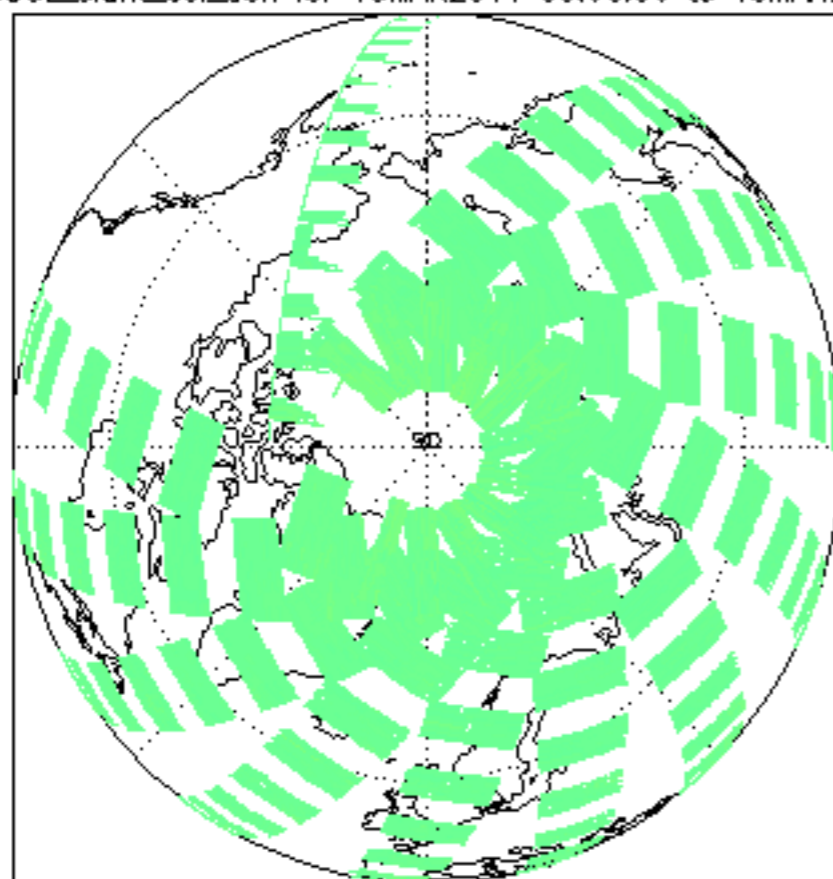


SCIOL2P_NADUV7S02_amf_cl for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

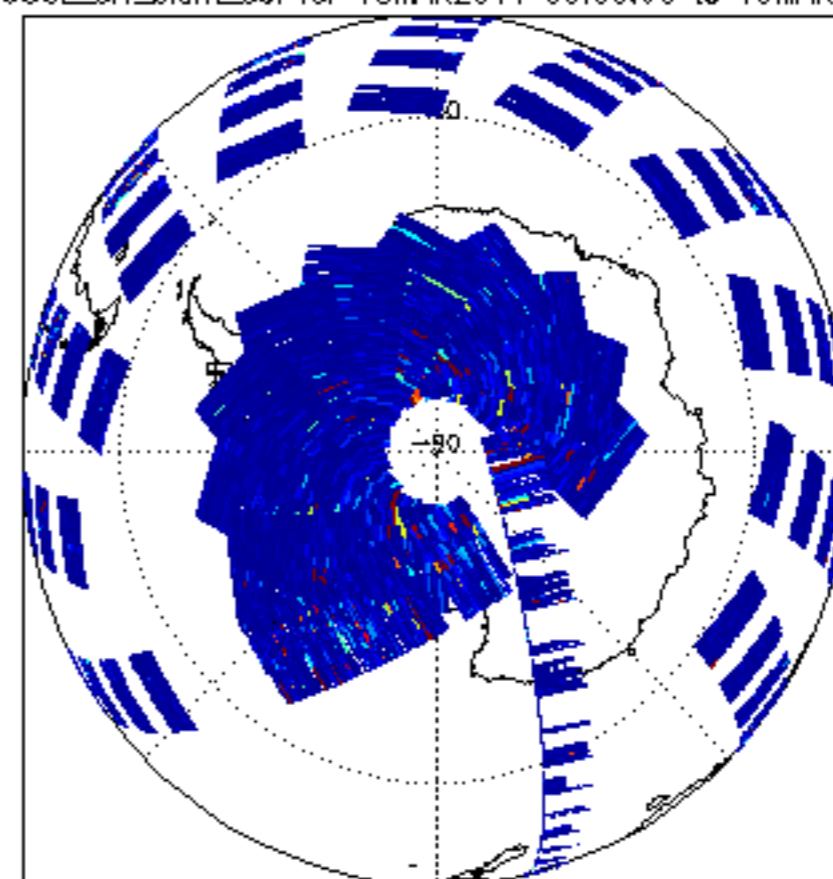
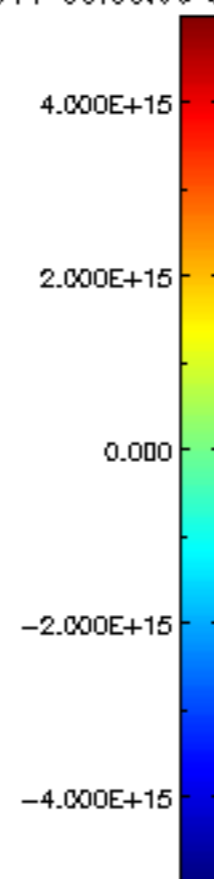
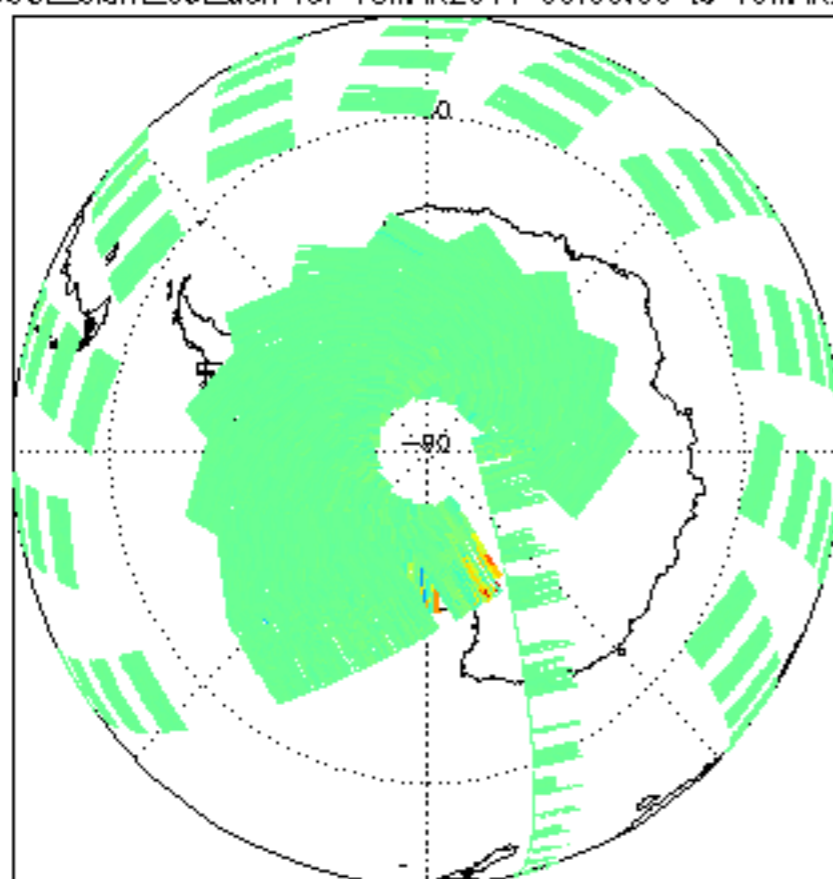


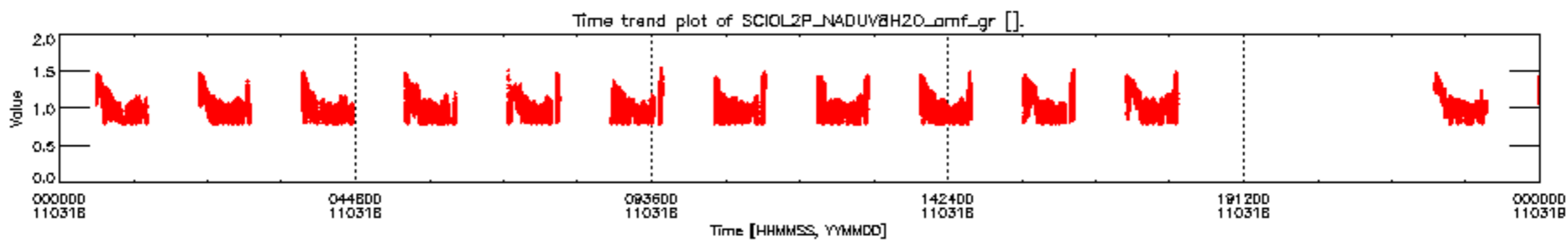
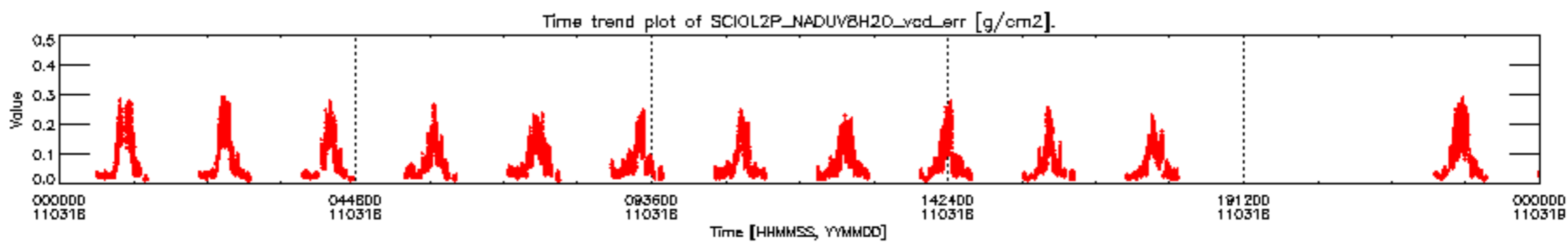
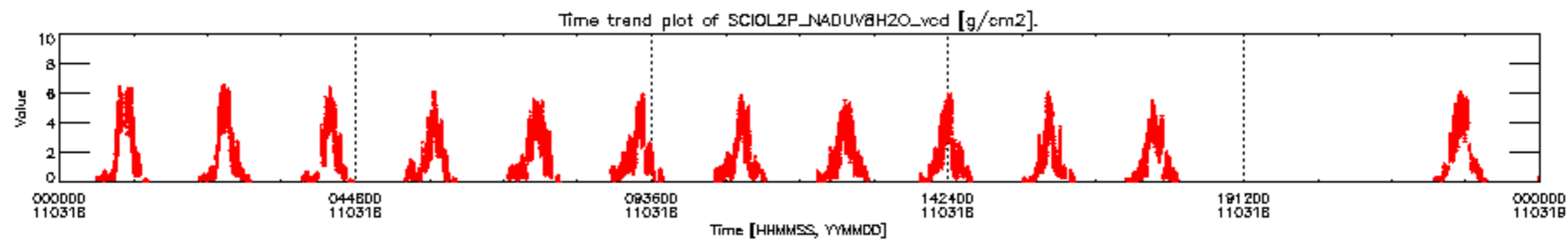


CIOL2P_NADUV6OCL_slant_col_den for 18MAR2011 00:00:00 to 19MAR2011 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 18MAR2011 00:00:00 to 19MAR2011 00:00:00 np

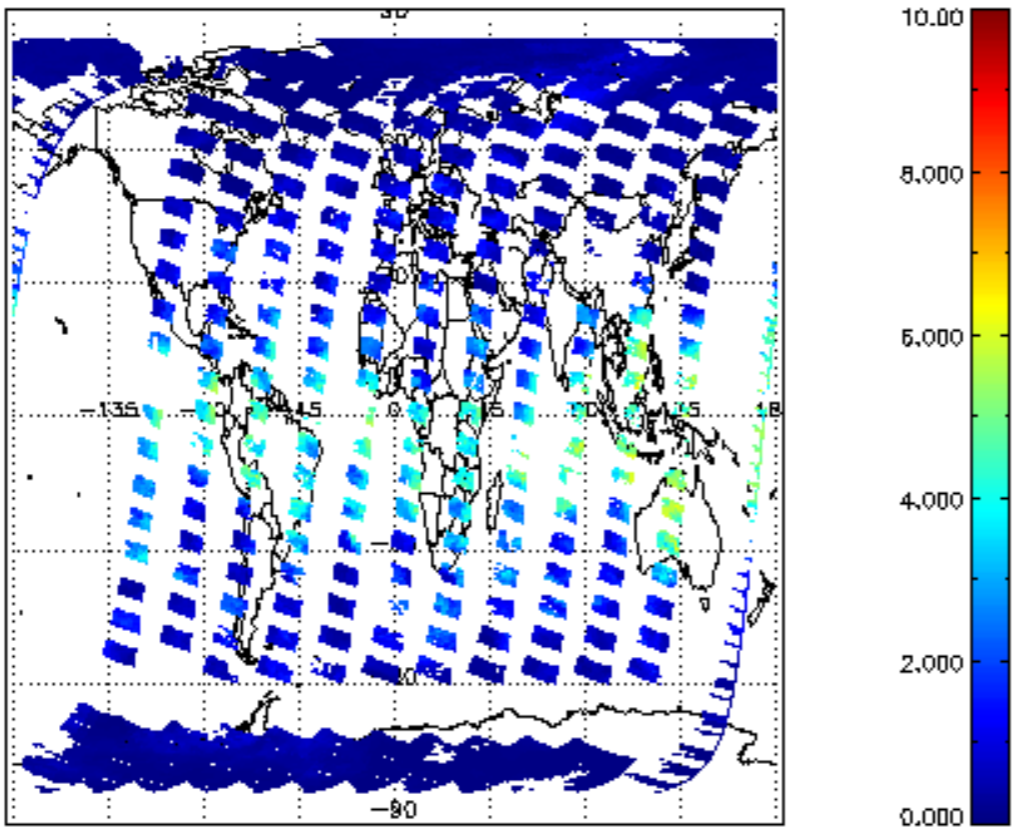


CIOL2P_NADUV6OCL_slant_coLden for 18MAR2011 00:00:00 to 19MAR2011 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 18MAR2011 00:00:00 to 19MAR2011 00:00:00 sp

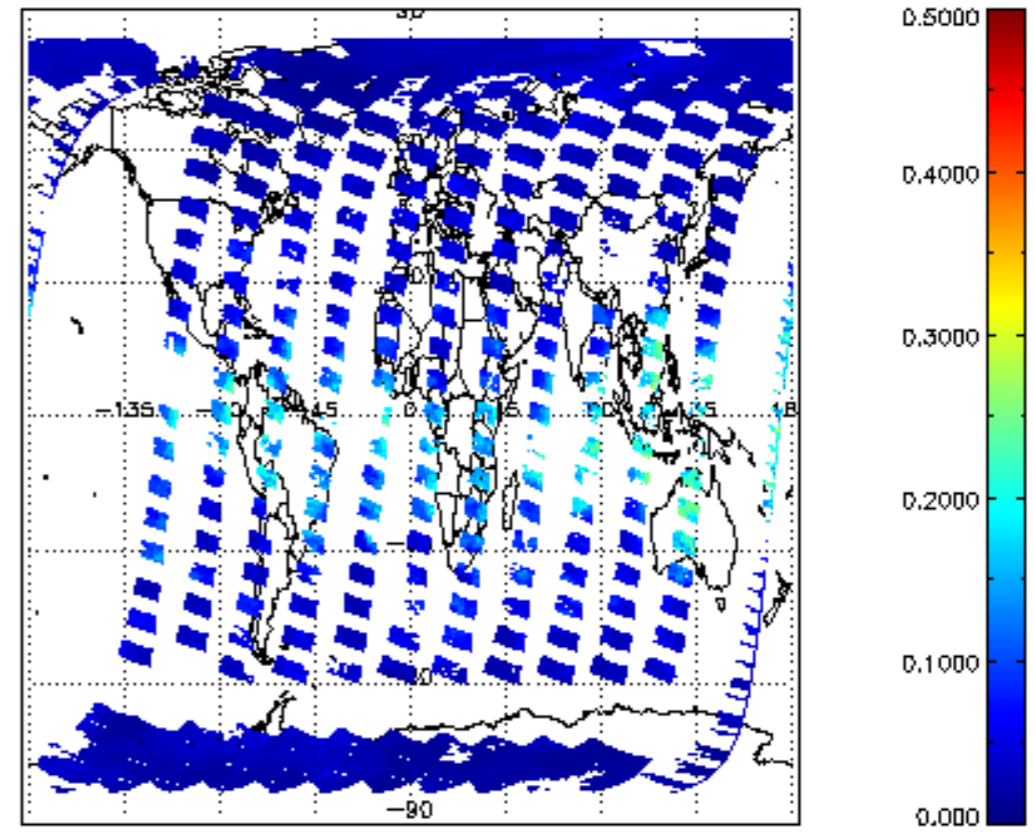




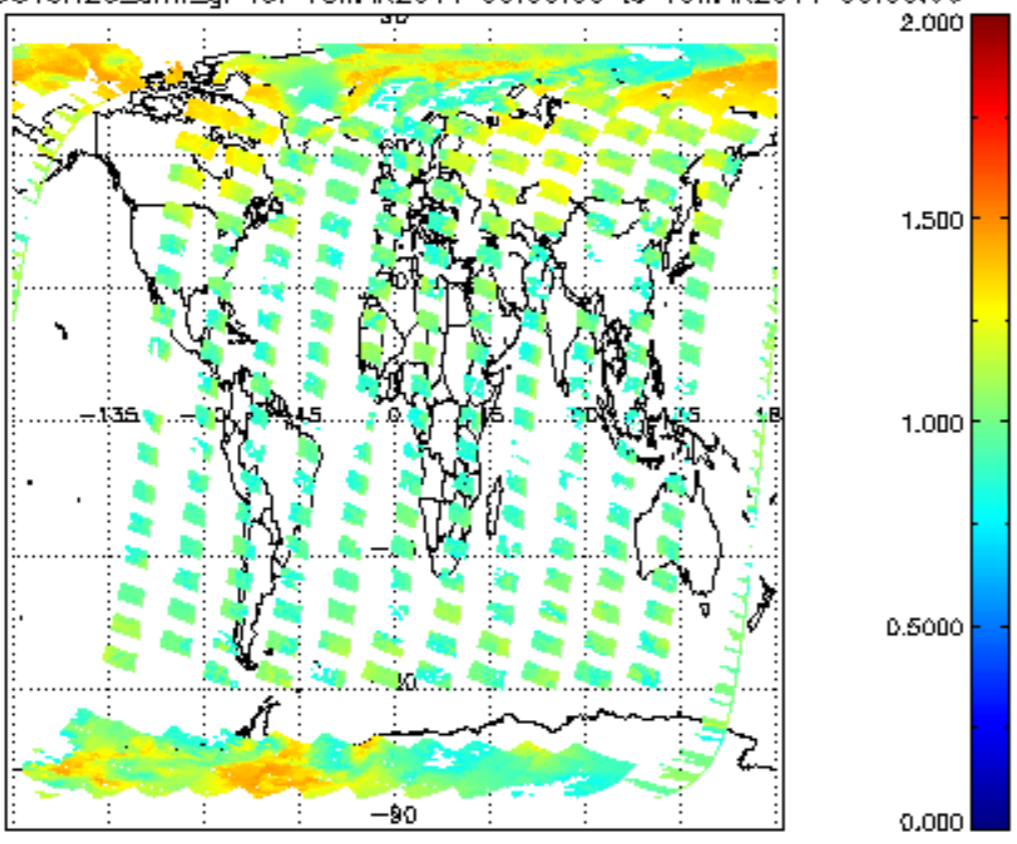
SCIOL2P_NADUV8H20_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

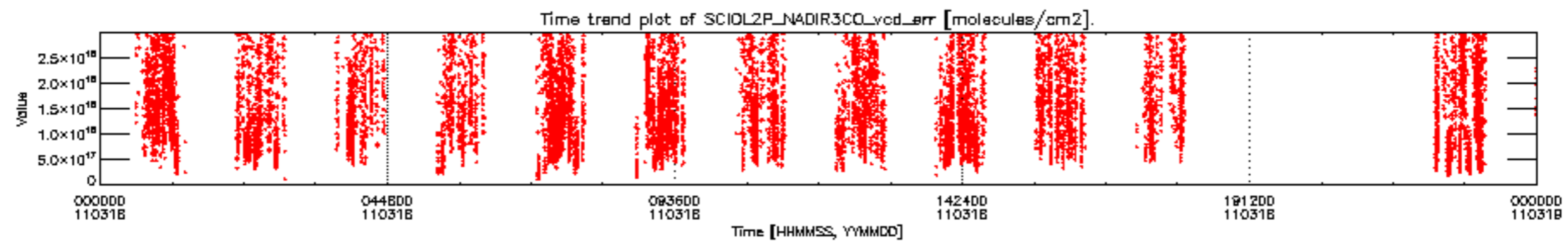
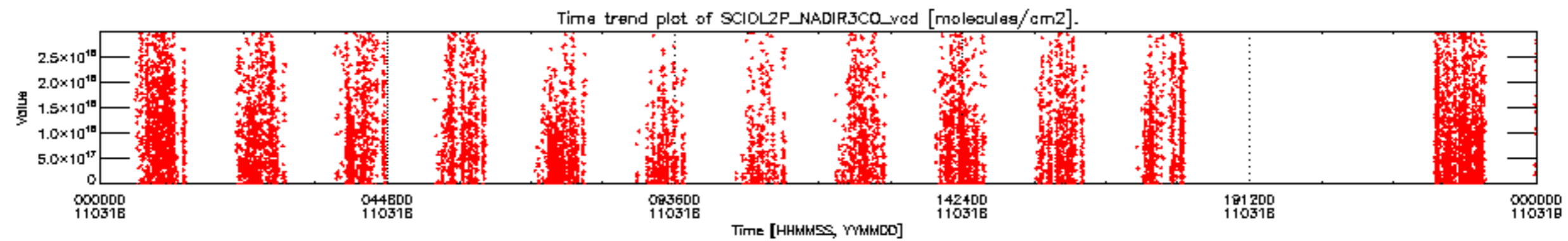


SCIOL2P_NADUV8H20_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

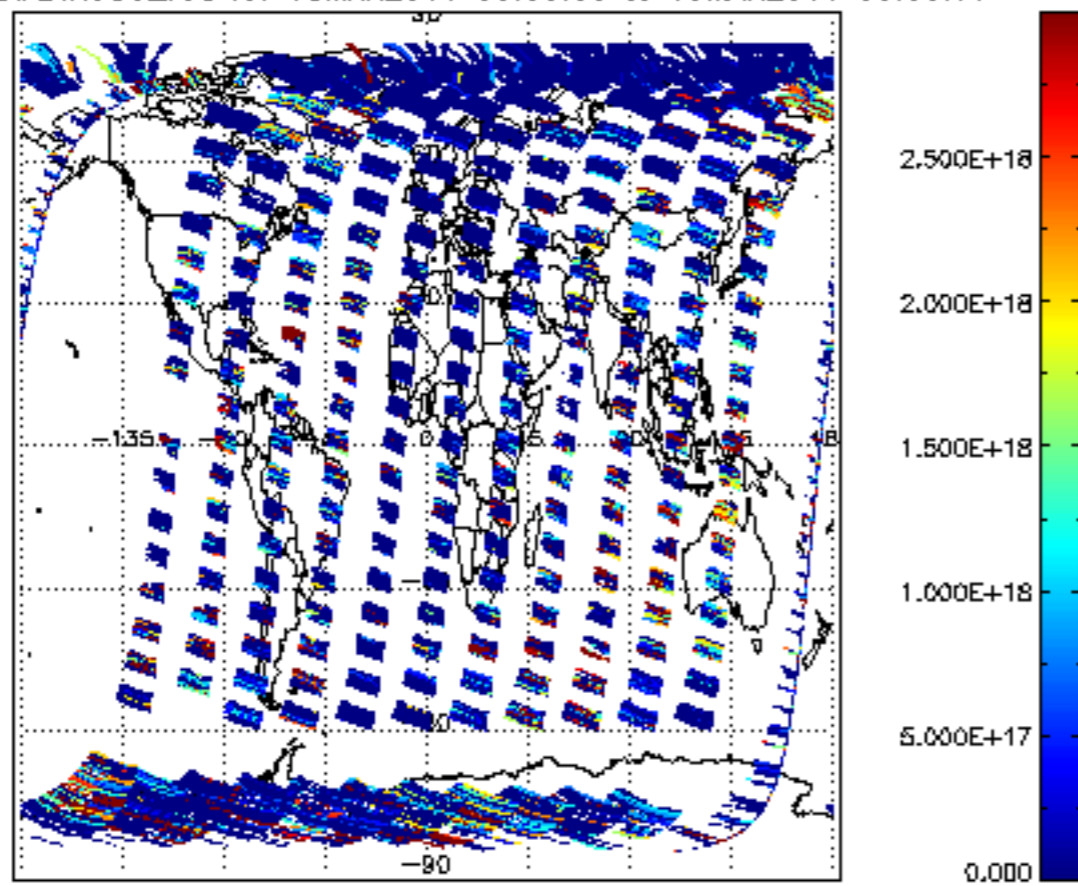


SCIOL2P_NADUV8H20_arnf_gr for 18MAR2011 00:00:00 to 19MAR2011 00:00:00

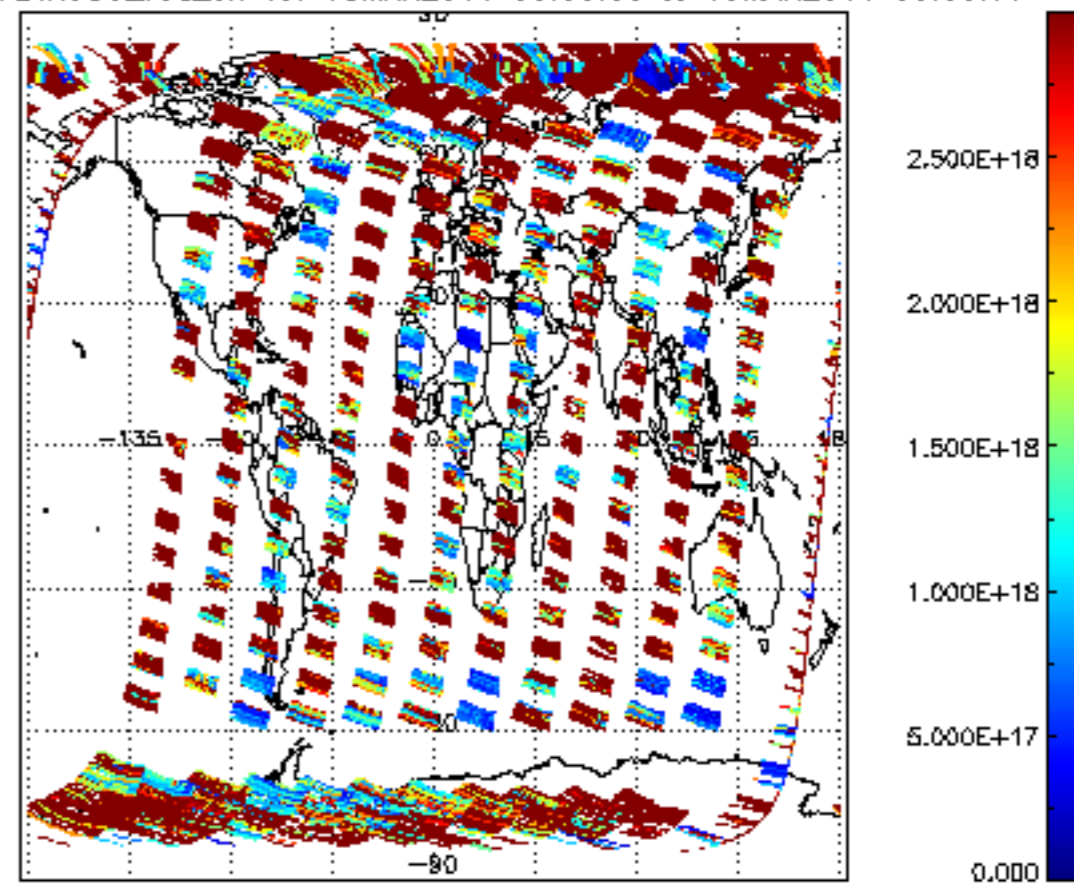




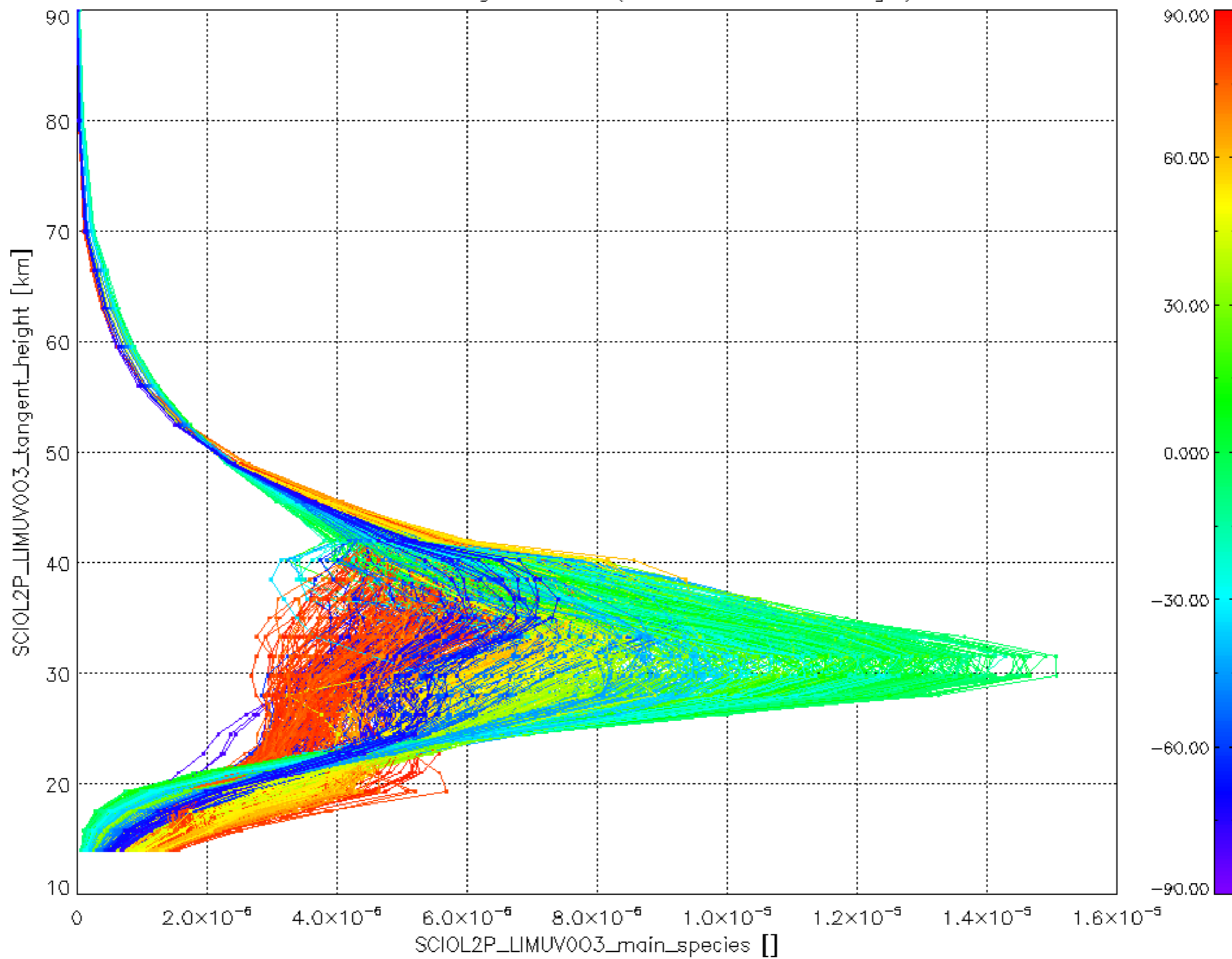
SCIOL2P_NADIR3CO_vcd for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



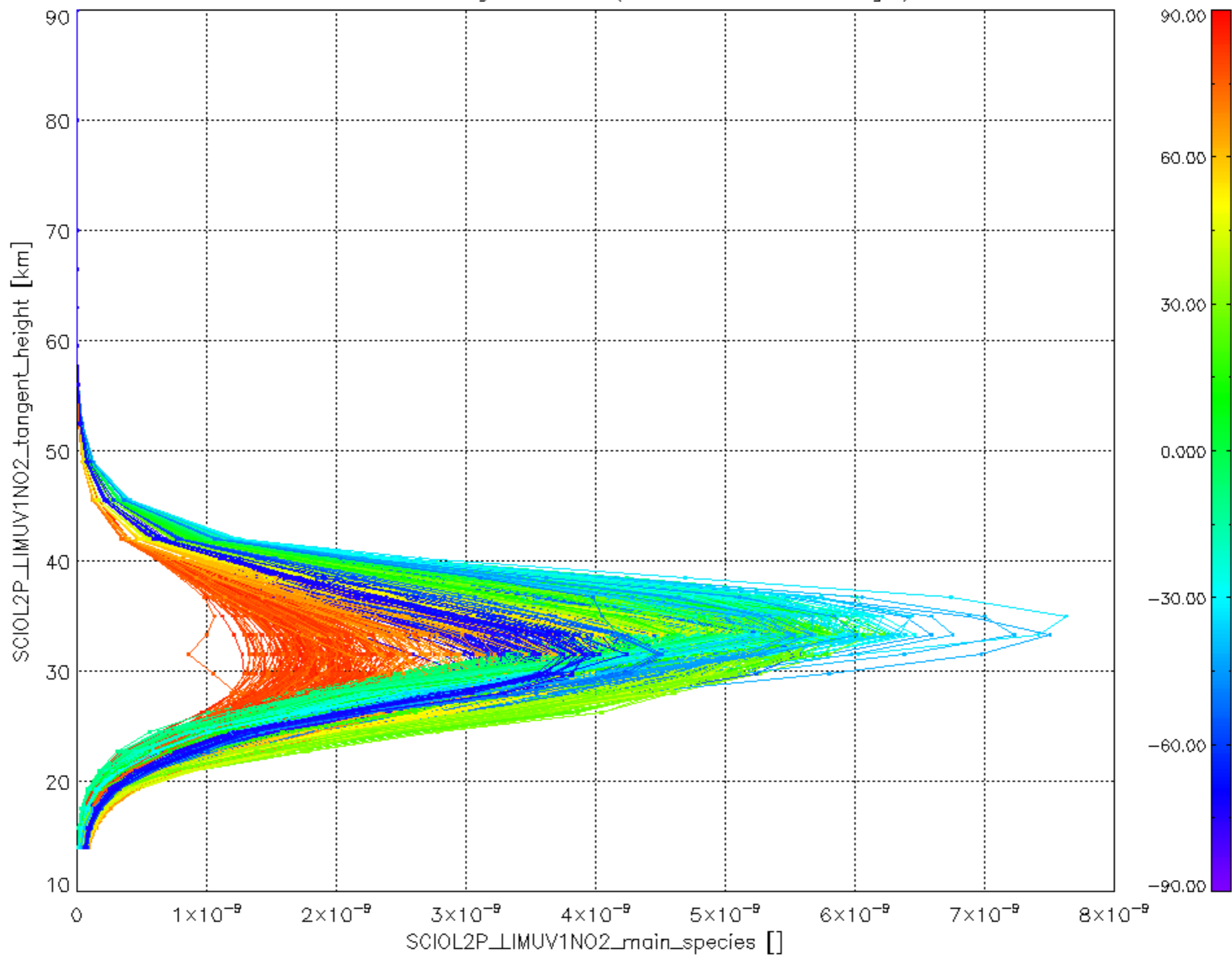
SCIOL2P_NADIR3CO_vcd_err for 18MAR2011 00:00:00 to 19MAR2011 00:00:00



Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P_LIMUV1N02_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).

